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COMPUTER SCIENCES CORPORATION

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Prepared for: US Army Facilities Engineering Support Agency Technology Support Division Fort Belvoir, VA 22060



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Comments on the contents of this report are encouraged, and should be submitted to:

Commander and Director
US Army Facilities Engineering Support Agency
Fort Belvoir, Virginia 22060

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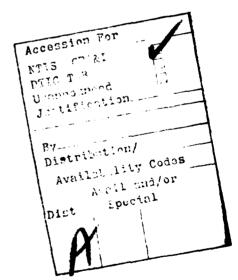


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MDW	Military District of Washington, D.C	A-8,9
ACC	Army Communication Command	,
	Fort Huachuca	
	Fort Ritchie	
HSC	Health Services Command	
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	Fitzsimmons AMC	•
	Walter Reed AMC	
INSCOM	Intelligence & Security Command	A-24,25
	Arlington Hall Station	
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MTMC	Military Traffic Management Command	
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EUSA	Eighth US Army-Korea	
BMDSC	Ballistic Missle Defense System Command	
USARJ	US Army-Japan	
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INTRODUCTION

This study was conducted for the U.S. Army by the Department of Energy under contract to the Computer Sciences Corporation, Washington, D.C. The data are compiled from Major Command (MACOM) Technical Data Reports, DA Form 2788 Series, prepared under the provisions of AR-420-16. These data are published annually under the title Facilities Engineering Annual Summary of Operations, which is more commonly referred to as the Red Book.

This report presents statistical data at a detailed level for fiscal years 1975 through 1980 for each reporting installation or activity in the Red Book, including MACOM summary data. The use of the term "Installation" throughout this report refers to Red Book "reporting installations" and includes all sub-posts and activities satellited upon that installation and not otherwise reported separately. This report presents and examines data as discussed in the following paragraphs.

A Data Sheet has been prepared for each installation and MACOM, and a graph displaying seven key data elements has been provided on the page opposite each data sheet. These data sheets and graphs are included in Appendix A. Information pertaining to completed Energy Conservation Investment Program (ECIP) projects, including family housing projects, has been posted on the data sheets and graphs. This enables a visual determination of the effects of ECIP projects on the graphically displayed data.

The Installation Data Sheets contain selected performance indicators which influence or measure energy consumption. These data elements include:

- *1. Total Energy Consumption and the percent deviation (PD) from the base year, FY 75,
- *2. Thermal energy consumption and PD;
- *3. Electrical energy consumption and PD,
- 4. Resident population and PD.
- 5. Non-resident population and PD.
- 6. Population served and PD (Resident plus non-resident population).
- *7. Effective population and PD (Resident plus 1/3 non-resident population);
- 8. Energy consumption per population served and PD.
- 9. Energy consumption per effective population and PD.
- 10. Electric energy consumption per resident population and PD.
- *ll. Installed air conditioning capacity and PD;
- 12. Electrical energy consumption per ton of air conditioning and PD.
- *13. Real property inventory (in KSF) and PD.
- 14. Real property inventory per effective population and PD.
- *15. Energy consumption per gross square foot and PD. ...
- 16. Thermal energy consumption per gross square foot and PD.
- 17. Electrical energy consumption per gross square foot and PD.
- The Real Property Inventory is broken down into building categories on Installation data sheets.
- *fhese seven data elements are plotted on Installation and MACOM graphs.

Trend lines have been computed for each Installation, MACOM and the world-wide consolidation graph using a linear regression model for the total energy consumption data. The correlation coefficient has been determined and is posted below the trend line on each graph. These trend lines allow a statistical prediction of the total energy consumption in FY 85. The correlation coefficient shows how much reliance can be placed on the prediction. The closer the correlation coefficient is to the value 1.00 the higher the confidence level that the prediction is reliable. For example, on the World-Wide Consolidation graph, the trend line predicts a reduction in energy consumption of 14.5 percent in FY 85 with a correlation coefficient of .79. A trend analysis of the energy consumption per gross square foot of building space (BTU/GSF) predicts a reduction of 22.8 percent in FY 85 with a correlation coefficient of .90. These predictions, over such a large data base, are quite reliable. Like all statistical tools, however, there are limitations. The trend lines are only a prediction of future performance based on past "track records". Also, where the analysis predicts a reduction of greater than one hundred percent, it is obviously impossible.

A detailed look at Installations with completed ECIP projects has been included in this report and offers a significant opportunity to view the results of retrofitting facilities.

Climatic influences have been analyzed by grouping Installations based on average recorded heating and cooling degree days. These groups are then divided into those installations "with" and "without" completed ECIP projects in order to measure the improved building efficiencies after retrofitting.

A similar report was published in August 1980 covering FY 75 through FY 79 for U.S. Installations only.

PERFORMANCE INDICATORS BY MACOM

The performance indicators displayed on MACOM/Installation data sheets are compared at the MACOM level in the following discussion and tables. The world-wide indicators are included and form a base for comparisons. Energy consumption can be measured against population and the size and type of facilities. Industrial activities are more energy-intensive, but no common factor can be used to measure conservation performance for all types of activities. The best performance indicator within the following tables is the percent deviation (PD) of FY 80 from FY 75.

Table 1 shows the PD of total energy consumption* and energy consumption as a factor of the population served and the effective population. The negative PDs indicate the improvement occurring in most MACOMS.

A further breakout throughout this report occurs within DARCOM. The GOCO installations are grouped together because they have comparable energy consumption characteristics and are less affected by energy conservation measures than they are by production contracts. The Army Depots are grouped together because they are generally similar in energy consuming charactertistics. The remainder of DARCOM, called "Other" consists of Arsenals, RDTE installations, Proving Grounds and the remaining DARCOM installations. This sub-dividing of DARCOM permits a closer scrutiny of their internal energy management program by looking clearly at the groups of similar installations which are affected by energy conservation measures.

* Total energy consumption reported herein is based on Red Book data only and does not include the Army National Guard or the Civil Works activities of the Corps of Engineers. Therefore these data will not correlate with the Defense Energy Information System (DEIS).

TABLE 1
TOTAL ENERGY CONSUMPTION AND AS A FACTOR
OF POPULATION SERVED AND EFFECTIVE POPULATION

	TOTAL ENERGY CONSUMP- TION PERCENT CHANGE FY 80 from FY 75	ENERGY COM POPULATION & PD (MBTI	SERVED	ENERGY CON EFFECTIVE & PD (MBTU	POPULATION
World Wid	e ~9.1	103.5	-11.6	141.3	-10.5
DARCOM	-28.9	221.9	-28.7	466,9	-30.6
OTHER	-11.1	164.9	-15.5	305.9	-16.9
DEPOTS	-9.0	154.3	-16.5	402.7	-16.5
GOCO	-48.0	656.0	-24.4	1,832.2	-25.5
FORSCOM	+ 0.6	89.7	-5.2	121.9	0
USAREUR	-2.1	82.5	-11.3	101.2	-8.9
TRADOC	+0.8	100.0	+1.5	128.7	-0.7
EUSA	-6.3	85.1	-0.7	120.8	-1.0
USARJ	-66.2	78.4	-28.0	140.8	-14.9
HSC	+33.8	281.5	+27.6	514.4	+24.7
WESTCOM	+13.8	74.7	+18.2	83.5	+0.7
USMA	-4.8	122.6	-7.2	149.6	-3.2
ACC	-1.1	80.0	6.0	118.5	+9.5
МГМС	-19.9	209.6	-2.8	477.5	+0.1
MDW	-11	31.2	-12.5	75.1	-7.4
INSCOM	-0.8	101.0	+15.0	186.4	+18.3
OCE	+32.4	327.0	+17.0	977.9	+16.7
BMDSC	+19.6	13.0	+60.5	13.1	+59.8

World-Wide electrical energy consumption has risen 6.7 percent since FY 75. The following factors help to explain this increase. The construction program has been devoted to projects that improve soldiers' living conditions, such as medical, troop housing and community facilities. Some training facilities, such as flight simulators, have also contributed to this increase. Overall, the installed air conditioning capacity has increased 31.1 percent from 486,652 tons in FY 75 to 638,184 tons in FY 80. Electric consumption as a factor of resident population and installed air conditioning capacity is shown in Table 2, along with the electric energy consumption per square foot of building space. This efficiency indicator shows the general increase in electric BTU/GSF, which amounts to 2 percent world-wide.

The Real Property Inventory has increased world-wide by 4.6 percent in this period, from 730 SF to 750 SF per capita of effective population. Table 3 shows that this increase in space is spread across almost all MACOMS. The effective population rose 1.5 percent in this time frame.

Table 3 also shows the total energy consumption per gross square foot of building space. This column is most important inasmuch as Presidential Executive Order 12003, dated 20 July 1977, requires all Federal agencies to reduce their BTU/GSF by 20 percent by FY 1985. The Army achievement of a reduction of 13.1 percent through FY 80 shows good progress, but not evenly distributed across all the MACOMS. The last column in Table 3 shows the thermal energy consumption/GSF. The improvement in reduction of thermal BTU/GSF since FY 75 is remarkably different from the electric BTU/GSF. It is apparent that most of the energy conservation measures have been successfully targeted against heating fuels. The ECIP projects discussed verify that heating system controls, insulation and such have been the most popular projects undertaken. A notable exception is the ECIP project completed at Red River Army Depot in February 1977. This \$341,359 project provided lighting improvements, and the reduction in electric consumption was sharp and has remained at the new low level since that time.

TABLE 2

ELECTRIC CONSUMPTION AS A FACTOR OF RESIDENT POPULATION,
AIR CONDITIONING CAPACITY AND GROSS SQUARE FEET OF BUILDINGS

	ELECTRIC CON RESIDENT POI & PD (MBTU/CA)	PULATION	ELECTRIC CO TON OF AIR ING & F (MBTU/	CONDITION-	ELECTRIC CON GROSS SQUARE BUILDING (BTU/G	FOOT OF
World Wide	2 77.2	+6.2	137.3	-18.7	84,283	+2.0
DARCOM OTHER DEPOTS GOCO	416.4 256.6 1,006.7 4,104.8	-21.8 -9.0 -10.6 -32.9	109.9 86.0 176.9 153.0	-35.6 -23.6 -19.3 -62.5	77,095 111,033 48,818 67,279	-21.4 -19.4 -6.9 -40.2
FORSCOM	77.6	+22.2	135.0	-25.6	98,856	+8.0
USAREUR	37.4	+9.4	1,143.1	+6.1	52,303	+7.5
TRADOC	77.3	+20.8	98.4	-1.9	104,107	+18.7
EUSA	68.9	+19.6	278.4	-34.2	130,995	+20.1
USARJ	123.0	-22.4	109.0	-36.1	74,583	-41.1
нsс	463.4	+55.1	109.7	+63.5	256,654	+25.8
WESTCOM	80.0	-6.3	239.0	-18.8	108,014	-15.3
USMA	57.7	+4.7	93.3	-21.2	62,668	+0.7
ACC	88.6	+48.4	125.9	-4.5	100,577	+13.1
MIMC	554.3	+39.1	239,2	-8.2	54,780	+54.4
MDW	153.6	+27.4	78.7	+11.7	153,714	+19.9
INSCOM	171.6	+25.6	52.8	+0.8	126,580	+0.7
OCE	NA		512.8	-28.6	535,043	-14.3
вмиѕс	NA		NA		NA	

TABLE 3

GROSS SQUARE FOOTAGE AS A FACTOR OF EFFECTIVE POPULATION,
TOTAL ENERGY CONSUMPTION AND THERMAL ENERGY CONSUMPTION

	RPI/EFFEC POPULATION (KSF/CAP	& PD	TOTAL ENERGY TION/GROSS SQU OF BUILDIN (MBTU/T	ARE FOOT	THERMAL ENERG TION GROSS SQ OF BUILDI (BTU/GS	UARE FOOT NGS & PD
WORLD-WIDE	0.75	+2.7	188,643	-13.1	104,360	-22.4
DARCOM	2.42	+6.1	192,947	-34.6	115,852	-41.1
OTHER	1.32	15.8	231,132	-28.3	120,099	-35.0
DEPOTS	4.03	-4.3	99,984	-12.8	51,166	-17.8
GOCO	6.82	+38.6	267,258	-46.2	199,979	48.0
FORSCOM	0.64	+8.5	189,212	-7.8	90,356	-20.5
USAREUR	0.63	0	159,489	-8.8	107,186	~15.1
TRADOC	0.00	-1.0	214,390	+1.6	110,283	-10.5
EUSA	0.42	0	290,707	-0.8	159,712	-13.2
USARJ	0.99	+6.5	142,062	-20.2	67,479	+30.8
HSC	1.06	+27.8	485,879	-2.4	229,225	-22.0
WESTCOM	0.70	+22.8	119,729	-18.3	11,715	-38.4
USMA	0.82	+1.1	182,461	-4.3	119,792	-6.7
ACC	0.67	+15.3	177,246	-5.1	76,669	-21.6
MTMC	3.65	-17.8	130,813	+2.1	76,033	+5.6
MDW	0.30	-12.9	252,191	+6.3	98,478	-10.0
INSCOM	0.78	+18.2	237,861	-1.2	111,281	-3.2
OCE	1.59	+54.2	613,460	-24.3	78,416	-58.0
BMDSC	0.86	+26.5	15,290	+26.6	15,290	+26.6

THE ENERGY CONSERVATION INVESTMENT PROGRAM

The Army's performance in energy conservation since the oil embargo of 1973 has been quite successful. The level of energy consumption in fixed facilities tell from 254 Trillion Btu (TBTU) in FY 1973 to 221 TBTU in FY 1974 and 215 TBFU in FY 1975. The reduced energy consumption in these three years was primarily due to Command emphasis on conservation, low cost or no cost conservation measures in facilities and changes in operating techniques of facilities. The fiscal year 1976 savings, down to 201 TBTU, reflected a mild winter over most the populated areas of the Army combined with a substantial reduction (32 percent) in the amount of energy consumed by the DARCOM Government Owned-Contractor Operated (GOCO) installations. This GOCO reduction reflects the reduced activity in the ammunition plants and has leveled off in FY 1980 at 48 percent below FY 1975. The GOCO reduction in FY 1976 accounted for 69 percent of the total Army savings and in FY 1980 for 77 percent. These savings are fragile because they reflect an idle industrial base instead of permanently increased efficiency in facilities operations. These timely savings have permitted the Army time to plan a strategy for permanent savings, however, and the progress in that direction is beginning to show dividends.

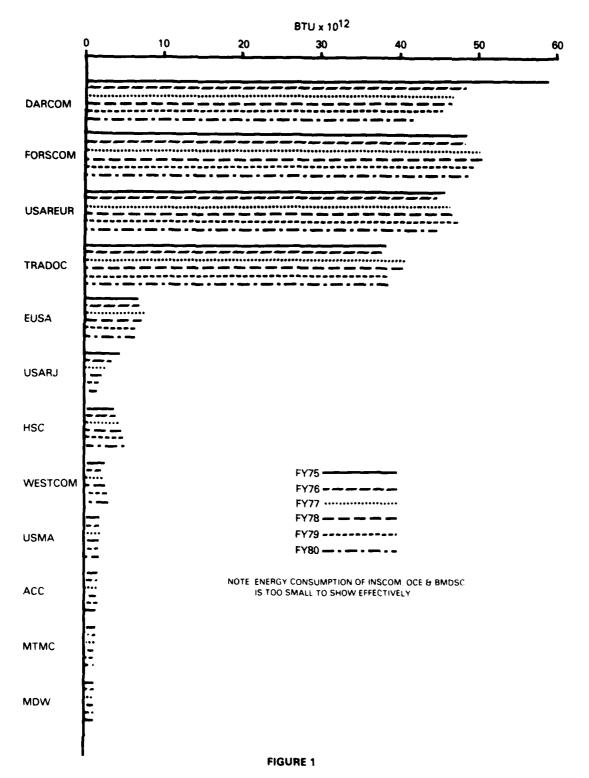
The Energy Conservation Investment Program (ECIP) started in FY 1976 as the DOD program for major building retrofits to improve energy efficiency. The early program years used the simple payback formula for project selection and changed to Energy Savings to Cost Ratios (E/C) and more sophisticated Life Cycle Cost Analysis to support project selection in the later years. The results of the ECIP are difficult, if not impossible, to accurately measure because of the lack of utility consumption meters on individual buildings. Consequently there are no individual "before and after" data to prove the benefits of these retrofit projects and confirm the design estimates of their anticipated savings.

The following analysis examines the ECIP program through FY 1980 and makes predictions about energy consumption through 1985. The Army Energy Plan and the Army Facilities Energy Plan outline the goals and objectives to be achieved, and the ECIP is the major effort in the area of Buildings and Facilities. The goals of reducing overall energy consumption by 20 percent and the energy consumption per gross square foot (BTU/GSF) by 20 percent by FY 1985 are truly a worthwhile challenge in view of the awesome increase in energy prices since 1973. The achievements through FY 1980 are notable, but, as mentioned above, fragile. The overall energy consumption in facilities is down 9.1 percent from FY 1975 and the BTU/GSF is down 13.1 percent from the same base.* Computing the trend analysis for these two goals shows that by the end of FY 1985 the predicted energy consumption will be down by 14.5 percent and the BTU/GSF will be down by 22.8 percent. However, this trend analysis statistically presumes that the past GOCO impact on savings will continue to the same degree through FY 1985 and that is not true. Other MACOMS and the remaining installations within DARCOM must show progress toward meeting the FY 1985 goals if they are to be met.

^{*} Red Book data only. Does not include Army National Guard and Civil Works Activities in the Corps of Engineers. Actual total Army Consumption is lower than Red Book data indicates.

Figure 1 shows the distribution of Army Energy Consumption by each MACOM for FY 75 through FY 80. Obviously, a substantial change in energy consumption within a MACOM that consumes only a small amount of the total Army energy will not have a significant impact. For example, the Health Services Command increased their overall energy consumption by 33.8 percent, but they only consumed 2.6 percent of the Army total. This is shown on Table 4 which lists each MACOM in order of the difference in MBTUs consumed in FY 1980 from FY 1975. Interestingly, HSC reduced its BTU/GSF consumption in FY 1980 by 2.6 percent, compared to FY 1975.

The largest percentage reduction occurs in the U.S. Army, Japan, with a 66.2 percent reduction. This is the direct result of a mission drawdown in Okinawa which reduced its energy consumption by 89.8 percent and its square footage by 93.5 percent. The remaining facilities in Okinawa are consuming 58.1 percent more BTU/GSF in contrast to the Honshu Garrison which is consuming 20.3 percent fewer BTU/GSF with an overall reduction in consumption of 23.5 percent with only 3.9 percent less square footage. Overall, Japan has 57.7 percent less square footage and is consuming 20.2 percent less BTU/GSF.



DISTRIBUTION OF ARMY ENERGY CONSUMPTION BY MACOM AND FISCAL YEAR

TABLE 4

DIFFERENCE IN MBTUS CONSUMED BY MACOM IN FY 80
COMPARED TO FY 75 AND PERCENT OF ARMY TOTAL IN FY 80

	DIFFERENCE IN MBTUS CONSUMED IN FY 80 COMPARED TO FY 75	PERCENT CHANGE FY 80 FROM FY 75	PERCENT OF TOTAL ARMY CONSUMPTION IN FY80
DARCOM (GOCOs) (OTHER) (DEPOTS)	-17,044,459 (-13,912,168) (-2,354,070) (-778,221)	-28.9 (-48.0) (-11.1) (-9.0)	21.3 (7.7) (9.6) (4.0)
USARJ	-2,834,944	-66.2	0.7
USAREUR	-947,430	-2.1	22.8
KOREA	-433,541	-6.3	3.3
MTMC	-297,703	-19.9	0.6
MDW	-135,222	-11.4	0.5
USMA	-92,496	-4.8	0.9
ACC	-18,510	-1.1	0.8
INSCOM	-4,737	-0.8	0.3
BMD SC	+6,275	+19.6	-
OCE	+24,163	+32.4	0.1
FORSCOM	+279,961	+0.6	24.9
TRADOC	+314,941	+0.8	19.6
WESTCOM	+353,724	+13.8	1.5
HSC	+1,268,695	+33.8	2.6
FOTAL	-19,561,283	-9.1	100.0

In evaluating the ECIP, it should be noted that the early program years were restricted to Stateside installations and those overseas installations which consume U.S. source energy (e.g., USAREUR which burns U.S. coal). A further restriction was made to exclude GOCO facilities from receiving ECIP projects because of the peculiar contracts governing their operations. Other modernization energy conservation programs support the GOCOs but ECIP can be used at GOCO facilities when non-production facilities are being retrofitted.

Regardless, any meaningful analysis of the ECIP and its impact can only be made when the projects are completed, not on the drawing board or under construction. For this reason, this analysis concentrates on those ECIP projects which were completed by the end of FY 1980. Included in this analysis are those Family Housing ECIP type projects which were funded under the Family Housing Appropriations.

Based on the above discussion, GOCO plants are not included in this analysis except when they do have completed ECIP projects. The sensitivity of GOCO plants to production runs is far greater than the impact of building retrofits, so distortion could easily result if they were included. The reporting requirements under ECIP and the program criteria have changed considerably since the program was implemented so certain estimates were made as to some of the project completion dates. The project costs changed with the various stages of design, construction and modifications so the costing data is the best available through current records. Through the end of FY 1980 no ECIP projects were completed at any overseas locations so they do not influence this analysis and are also excluded. With these qualifications, the following analysis of the completed ECIP projects is made.

Table 5 shows the number and cost of the ECIP projects completed by the end of FY 1980. As stated, the GOCO installations without completed ECIP projects and overseas MACOMS have been excluded from this analysis to avoid distortion. This analysis includes 58 installations with completed ECIP projects and 40 installations without completed ECIP projects, all within the United States. The combined total energy consumption is compared later against the rate of completion of ECIP projects using dollars and fiscal years.

TABLE 5
ECIP PROJECTS COMPLETED BY END FY 1980

PROGRAM YEAR	COMPLETED AT AT END OF FY 80 (\$)	REMAINING TO TO BE COMPLETED (\$)	NUMBER OF PROJECTS COMPLETED	NUMBER OF INSTALLATIONS WITH PROJECTS
FY 76	27,150,144	0	30	25
FY 77	44,816,956	0	57	40
FY 78	14,625,000	1,325,000	12	12
FY 79	6,198,000	38,577,000	16	13
FY 80	2,146,472	41,880,000	5	5
TOTAL	94,936,572	81,782,000	120	58*

^{*} DUE TO SOME INSTALLATIONS HAVING PROJECTS IN MORE THAN ONE PROGRAM YEAR, THIS NUMBER IS NOT A MATHEMATICAL TOTAL.

In order to show the energy consumption in dollars, a value of \$23.25 per Army Barrel of Energy was used. This value was determined by data provided by MACOMS to DAEN-MPO-U as part of the FY80 Technical Data Report.

Figure 2 illustrates the composition or mix of the "Army Energy Barrel", which shows that of the total amount of fuel used by the Army, the major portion is electricity.

The "Army Berrel of Oil" Contains the Energy of a Berrel of Crude Oil (5.8 Million BTU's). Its Composition Represents the Various Fuel Used by the Army in its Operations of Buildings & Facilities.

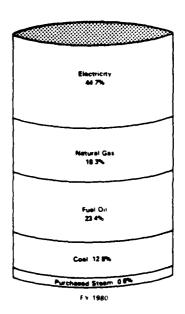
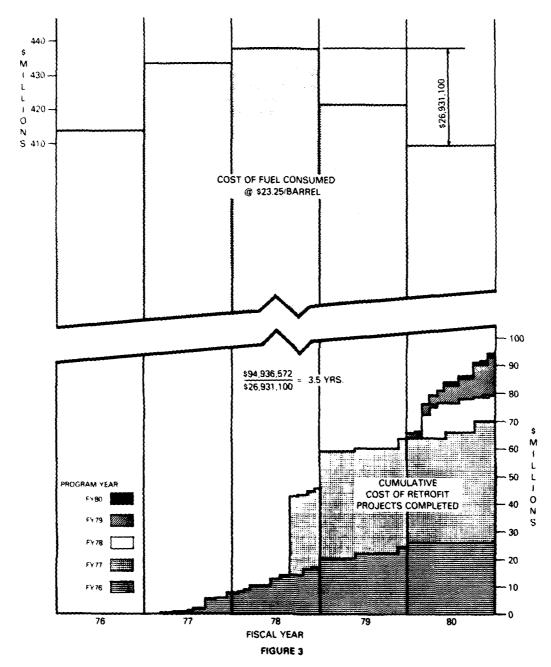


FIGURE 2
THE ARMY ENERGY BARREL
FY 1980 COST 123.25/BARREL

Each type of fuel within the mix has increased in price, resulting in increased cost to the Army. The cost of the Army energy barrel in FY 1980 was \$23.25.

Using the value of \$23.25 per barrel equivalent and showing the combined total energy consumption (58 installations with ECIP projects) converted at that rate, a comparison is made in Figure 3 that shows the cumulative cost of retrofit projects and the cost of fuel consumed. The simple payback shows a 3.5 year payback.



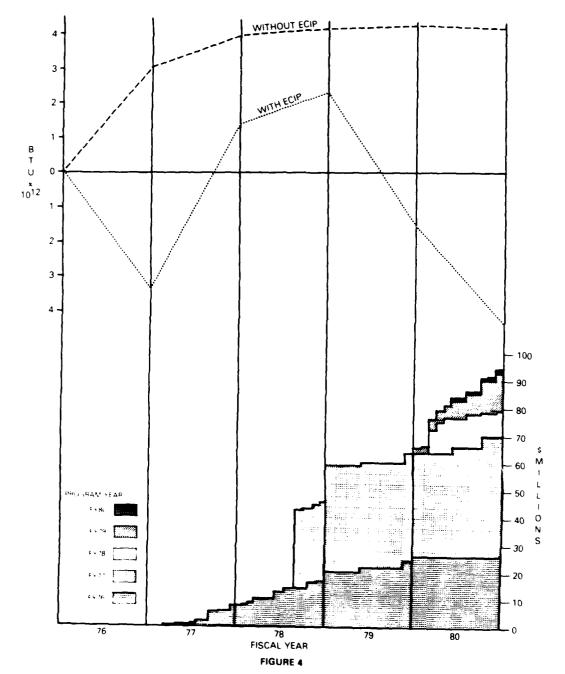
CUMULATIVE COST OF COMPLETED ECIP PROJECTS AND COST AVOIDANCE OF REDUCED CONSUMPTION OF INSTALLATIONS WITH ECIP PROJECTS

Looking at the 98 installations in the two groups of installations with ECIP projects completed and installations without ECIP projects completed in Figure 4, shows more clearly the impact on installations with completed ECIP projects. The sharp downturn in energy consumption from FY 78 on is directly related to the rate of completed ECIP projects. The installations without ECIP projects continue at a level of increased energy consumption. A trend analysis, using FY 78 as the base year, shows a remarkable difference in the predicted behavior of the two groups. The group without ECIP projects is predicted to consume 15.6 percent more energy in FY 85, compared to FY 75, and the installations with ECIP projects is predicted to consume 19.9 percent less energy in FY 85, compared to FY 75.

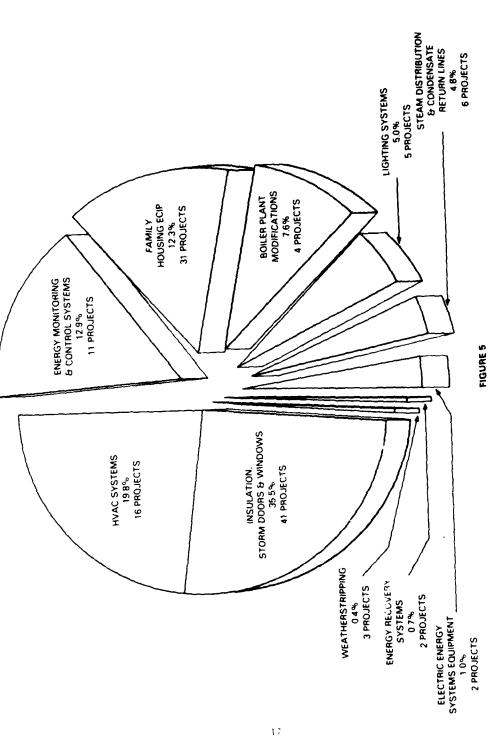
Short of having "before and after" metered data for validation of ECIP projects, this group comparison strongly indicates that ECIP projects are successfully reducing energy consumption in a cost effective manner.

Other data also indicate better management of the ECIP. The FY 1976 ECIP projects were not completed for 51 months after the beginning of FY 1976. The FY 1977 ECIP projects were completed in 45 months. The more recent requirements by Congress to have advanced design prior to authorization and appropriation is resulting in shorter lead time to completion. The bottom portion of Figures 3 & 4 shows the first five program years of the completed ECIP projects and it shows that some FY 1979 projects were completed at the beginning of FY 1980 and two FY 1980 projects were completed within FY 1980.

There are ten general groupings of ECIP project types. Several projects include more than one type of project, but the primary type was used to classify projects into their respective types. The percentage of the completed program dollars and numbers of projects is shown on Figure 5. The largest percentage of dollars and the largest number of projects dealt with the building shell and included insulation, storm doors and storm windows. This was followed by modification of the HVAC systems and energy monitoring and control systems. The family housing ECIP projects included insulation, storm doors and windows, weatherstripping and set back thermostats. As noted previously, only seven projects, using 6 percent of the dollars, related directly to electrical energy savings.



CUMULATIVE COST OF COMPLETED ECIP PROJECTS AND ANNUAL CHANGE IN ENERGY CONSUMPTION OF INSTALLATIONS WITH AND WITHOUT ECIP PROJECTS



U.S. ARMY ENERGY CONSERVATION INVESTMENT PROGRAM PERCENT DISTRIBUTION OF DOLLARS BY TYPE AND NUMBER OF PROJECTS

The extension of ECIP to overseas areas should have a significant impact on energy conservation in those areas. Figures 6a through 6d list each reporting installation in the "Red Book" and show the FY 75 and FY 80 total energy consumption. Through the use of symbols those installations with completed ECIP projects are readily comparable with those installations without ECIP projects. If the potential for conservation is greatest in installations consuming the largest quantity of energy then the overseas areas offer a lucrative target for building retrofits. The first four installations on Figure 6a consumed over 45 trillion BTU (BTU x 10^{12}) in FY 80, almost one fourth the total Army consumption. The abscissa on Figures 6a through 6d changes in scale to provide a more meaningful display.

An evaluation of the ECIP would be incomplete without investigating the rate of energy consumption in retrofitted buildings. The energy consumption per gross square foot (BTU/GSF) has been analyzed using the same overview approach as the preceeding evaluation.

BTU/GSF is an indicator of building efficiency and was adopted by Executive Order 12003 as the primary indicator to measure energy conservation progress within Federal agencies. Table 6 lists the MACOMS and their FY 75 and FY 80 BTU/GSF and the percent deviation. Better progress is being made in meeting the BTU/GSF reduction goal than in meeting the overall energy reduction goal.

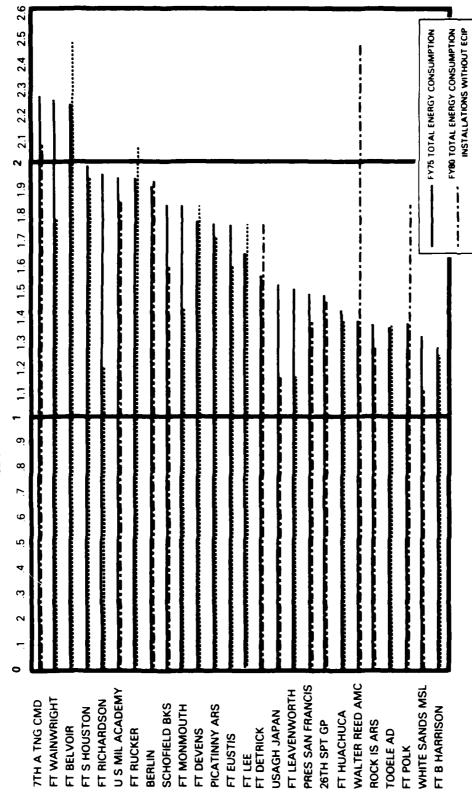
FYBO TOTAL ENERGY CONSUMPTION INSTALLATIONS WITHOUT ECIP FYBO TOTAL ENERGY CONSUMPTION INSTALLATIONS WITH ECIP - FY75 TOTAL ENERGY CONSUMPTION 18 17 16 15 14 13 15 Ξ TRILLION BTU (BTU x 10¹²) 10 6 œ 9 FT LEONARD WOOD 193RD INF BDE CZ REDSTONE ARS **USAGO JAPAN** 21ST SPT CMD RADFORD AAP ABERDEEN PG FT CAMPBELL FT KNOX FT BENNING FT LEWIS **EUSA KOREA** FT JACKSON FT GORDON FT CARSON FT BRAGG FT MEADE VII CORPS FT BLISS FT HOOD FT RILEY V CORPS FI SILL FIDIX FI ORD

20

13

ENERGY CONSUMPTION BY INSTALLATION FY75 & FY80 FIGURE 6A

TRILLION BTU (BTU \times 10^{12})



FY75 & FY80 ENERGY CONSUMPTION BY INSTALLATION

FIGURE 6B

FYBO TOTAL ENERGY CONSUMPTION INSTALLATIONS WITH ECIP

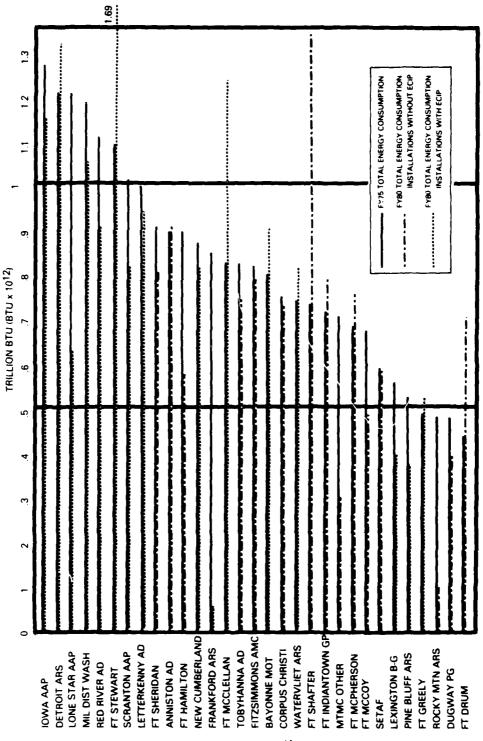


FIGURE 6C FV75 & FV80 ENERGY CONSUMPTION BY INSTALLATION

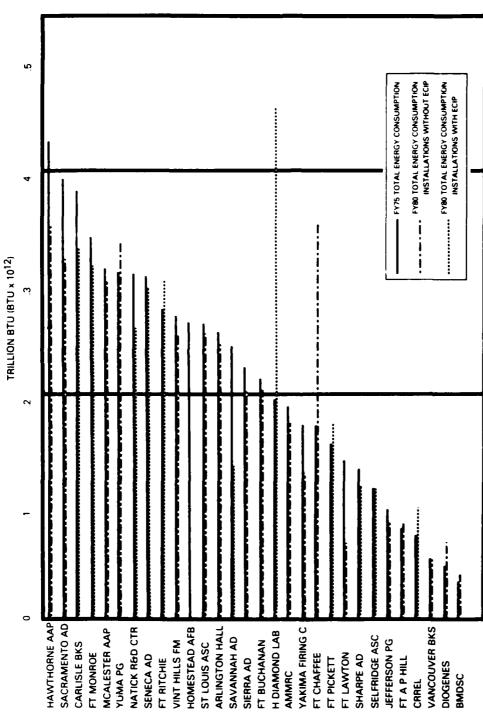


FIGURE 6D

FY75 & FY80 ENERGY CONSUMPTION BY INSTALLATION

TABLE 6

FY 75 & FY 80 ENERGY CONSUMPTION PER GROSS SQUARE FOOT OF BUILDINGS

	BTU/GSF		PERCENT
	FY 75	FY 80	DEVIATION
WORLD-WIDE	217,025	188,643	-13.1
DARCOM	294,984	192,947	-34.6
OTHER	322,440	231,132	-28.3
DEPOTS	114,688	99,984	-12.8
COCO	497,047	267,258	-46.2
FORSCOM	205,188	189,212	-7.8
USAREUR	174,930	159,489	-8.8
TRADOC	210,984	214,390	+1.6
EUSA	293,042	290,707	-0.8
USARJ	178,151	142,062	-20.2
HSC	497,789	485,879	-2.4
WESTCOM	146,498	119,729	-18.3
USMA	190,591	182,461	-4.3
ACC	186,735	177,246	-5.1
MTMC	107,454	130,813	+2.1
MDW	237,319	252,191	+6.3
INSCOM	240,650	237,861	-1.2
OCE	810,913	613,460	-24.3
BMDSC	12,075	15,290	+26.6

The United States has been divided into seven climate zones as a result of a joint study conducted by the Department of Housing and Urban Development and the Department of Energy. These zones were developed using average heating and cooling degree days. These zones are described and depicted in figure 7. Heating and cooling degree day data has been posted on the data sheets and were extracted from TM 5-785, dated 1 July 1978.

Zone Descriptions in Heating (HDD) and Cooling (CDD) Degree Days are:

Zone 1 - Less than 2000 CDD and more than 7000 HDD

2 Less than 2000 CDD and 5500 to 7000 HDD

Less than 2000 CDD and 4000 to 5499 HDD

4 - Less than 2000 CDD and 2000 to 3999 HDD

5 - Less than 2000 CDD and 0 to 1999 HDD
 6 - More than 2000 CDD and 0 to 1999 HDD

7 - More than 2000 CDD and 2000 to 4000 HDD

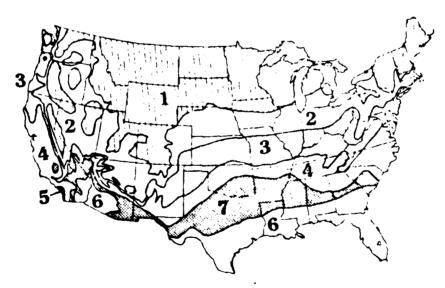


FIGURE 7
CLIMATIC ZONES IN THE
UNITED STATES

The 98 installations used in the preceding ECIP analysis are used again to provide a measure of difference between installations with and without completed ECIP projects. Two installations are deleted from this study, Hawthorne and McAlester AAP, because they were transferred to Army as of FY 78 from the U.S. Navy and no FY 75 data is available.

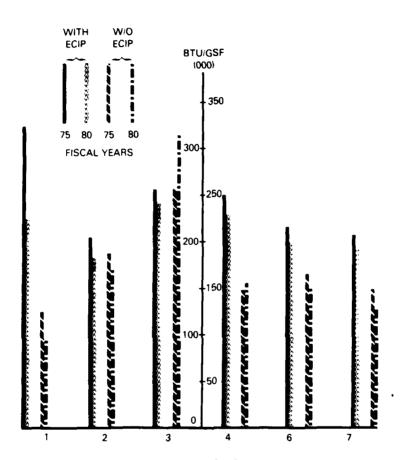
The remaining 96 installations are grouped by climatic zones and their BTU/GSF plotted for FY 75 and FY 80 into two groups, with and without ECIP projects. Figure 8 shows the comparison and the tabulation shows the significant weighting factors for each zone and group. Overall, installations with ECIP projects reduced their BTU/GSF by 8.2 percent compared to a 3.6 percent reduction for installations without ECIP projects.

Overseas locations have been classified according to the climatic zone descriptions and Table 7 snows these installations along with the stateside groups. By and large, overseas locations compare most favorably and the 8.8 percent overseas reduction matches that of the consolidated USAREUR. The overall energy consumption overseas has been reduced 10.9 percent from FY 75, including USARJ. Excluding USARJ for reasons discussed on page 9, overseas locations reduced their overall energy consumption by 6.6 percent.

It perhaps should be reiterated that the DARCOM GOCO installations are not included in this analysis, except when they have completed ECIP projects. The consolidated GOCO data sheet shows a 46.2 percent reduction in BTU/GSF.

The dollars spent in completing ECIP projects through FY 80 have been distributed to the MACOMS as recorded in Table 8.

It is interesting to note that the completed ECIP projects, spread over the entire gross size of the 58 installations receiving them, amounts to 20 cents per gross square foot. Not an accurate or usable number, but interesting.



			CLIMAT	IC ZONES			TOTALS
NR INSTLS W/ECIP	4	15	18	10	4	7	58
NR INSTLS W/O ECIP	2	12	9	6	7	2	38
PERCENTAGE OF GSF INSTLS W/ECIP	2.4	12.4	25.6	13.0	7.9	11.6	71.5
PERCENTAGE OF GSF INSTLS W/O ECIP	2.0	6.7	2.8	6.4	9.1	1.5	28.5
PERCENTAGE OF TOTAL ECIP DOLLARS	11.1	18.3	30.0	24.8	3.8	12.0	

FIGURE 8

ENERGY CONSUMPTION PER GROSS SQUARE FOOT BY CLIMATIC REGIONS AND INSTALLATIONS WITH AND WITHOUT ECIP PROJECTS

TABLE 7

BTU/GSF COMPARISONS BY CLIMATIC ZONE DESCRIPTIONS BETWEEN
U. S. INSTALLATIONS (WITH AND WITHOUT ECIP) AND OVERSEAS LOCATIONS

ZONE	WITH	ECIP		TUOHTIW	ECIP	
	FY 75	FY 80	PD	FY 75	FY 80	PD
1 7th ATC	321,788	221,786	-31.1	123,613 182,170(FY 77)	92,922 162,440	-24.8 -10.8
2	204,110	182,739	-10.5	185,925	167,602	- 9.9
BERLIN				168,643	158,255	- 6.2
V CORPS				188,474	169,115	-10.3
VII CORPS				180,215	165,551	- 8.1
21st SPT CM	U			155,721	138,617	-11.0
3	255,579	242,947	- 4.9	255,637	313,540	+22.7
EUSA-KOREA				293,042	290,707	- 0.8
4	248,845	228,150	- 8.3	147,825	155,064	+ 4.9
USAGH-JAPAN	•	,	_	158,402	137,016	-13.5
SETAF				157,905	125,806	-20.3
6	214,948	198,827	- 7.5	165,024	150,641	- 8.7
USAGO-JAPAN		, ,	, , ,	191,674	303,095	+58.1
BMDSC				12,075	15,290	+26.6
7	206,388	192,918	- 6.5	149,809	127,158	-15.1
TOTAL U.S.	236,092	216,632	- 8.2	172,814	166,592	- 3.6
TOTAL						
OVERSEAS				182,988	166,953	- 8.8

TABLE 8

DISTRIBUTION OF ECIP \$
BY MACOM

	ECIP \$	PERCENT OF TOTAL	NUMBER OF INSTAL- LATIONS WITH ECIP	AVERAGE ECIP \$ PER INSTALLATION
TRADOC	39,696,502	41.8	17	2,335,088
FORSCOM	35,273,196	37.2	14	2,519,514
DARCOM DEPOTS GOCO OTHER	18,640,594 (10,080,350) (1,405,000) (7,155,244)	19.6 (10.6) (1.5) (7.5)	22 (8) (4) (10)	847,300 (1,260,044) (351,250) (715,524)
ACC	971,568	1.0	2	485,784
MTMC	128,000	0.1	1	128,000
MDW	120,000	0.1	1	120,000
OCE	106,712	0.1	1	106,712
LATOT	94,936,572	100	58	1,636,837

APPENDIX A

This Appendix consists of a Data Sheet and a Graph for each reporting Installation in the Red Book and for each MACOM.

The graphs display 7 key data elements for the fiscal years 1975 through 1980. The zero line is the FY 75 base and the ordinate is the percent change from FY 75 for each subsequent year. The trend line represents the Total Energy Consumption from FY 75 through FY 80, with the trend analysis prediction for FY 85.

The Data Sheets contain the raw data from the Red Book for the same years and selected performance indicators. The Installation Data Sheets contain the real property breakdown by categories, in addition to the above data.

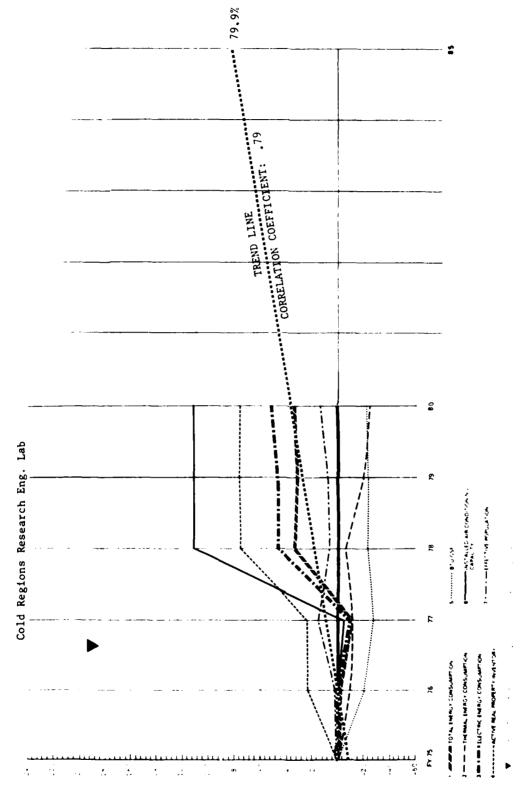
The remarks section on the Date Sheets is used to identify any organizational changes and any ECIP projects completed along with a triangle symbol across the top of the sheet to indicate the point in time when these projects were completed. The ECIP remarks and symbols were repeated on the Graphs and offer visual impact of the completed ECIP projects.



U.S. ARREYS OF ENERGY CONSUMPTION INSTALLATION 1

MALOW

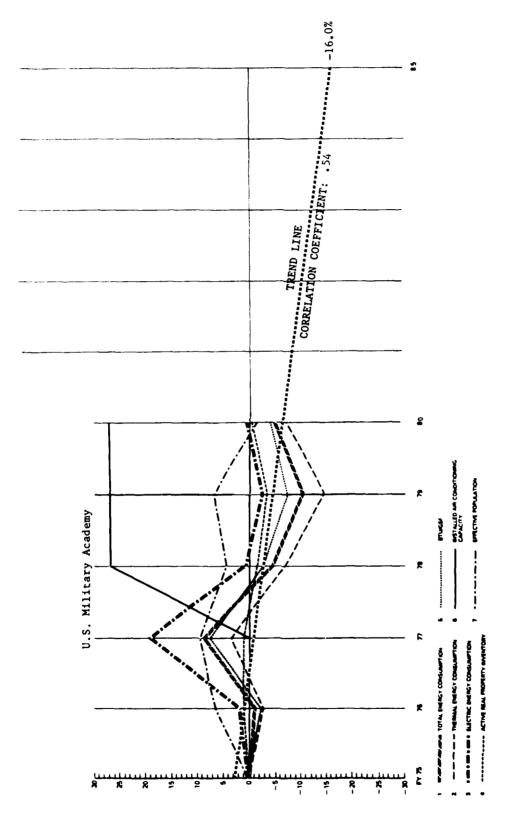
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A COME		1,1%	1.1.1			5,5	17.71	18	0	101	-
		-		-		0.03	15.31	1.1.1	1 23.11		-
8 En Contamption/Pop Savest Is PD				7	1,77.7	1.050	12.5%	1,619,6	1 31.61	(91 1 6
_			-		-	e	-	c	-		-
Population	17.7	C	-	3.	1, 3 -1	14.	110,03	168	1110.01	168	110.
	ľ	. 6.,	100	1.	-	S OUL	1-30.11	501.1	1-30.7 1	512.8	1
12 flar Energy-Ton of As Cand 6 PD		-	-	1	73.60	141	10.27	141	-	161	-
13 Read Property Inventory (NPT) to PD KSFCAP	-	5:.1	15.15.	17.7	- 7.7.	1.49	10.54	1.69		_	59 1 54.
	- 10 CLX	611 920	15.00.	, v.	1 4 2 - 2 - 1	61.78	11:12:1	766, 104	1.0.55-1	(197.46)	1-24.
15 Energy Consumption/GSF to PD	115 47	13.	-	11: -11	- x x - 1	787 00	1.47	45,127	7.75-1	78.415	1.53.0
16 Thursd En CommemphereGSF to PD	.0.	4 K - 4,11%	17 11 -		3 3 1 2	545.243	14.41	533 BK9	1 19 - 1	535.043	٦
17 Electrical En Consumption/GSF & Pt) IISS	**************************************				122.00	333333					
3511	•	•		,				-			
25		71		1.5		12				ਹ	
2	S.	i) a		Cx		8C 1		128		1.39	
Research Development & Testing KSF		77.		,				-		,	
3	Not Average Separately included Above		BASE	F.		11.		3.1			
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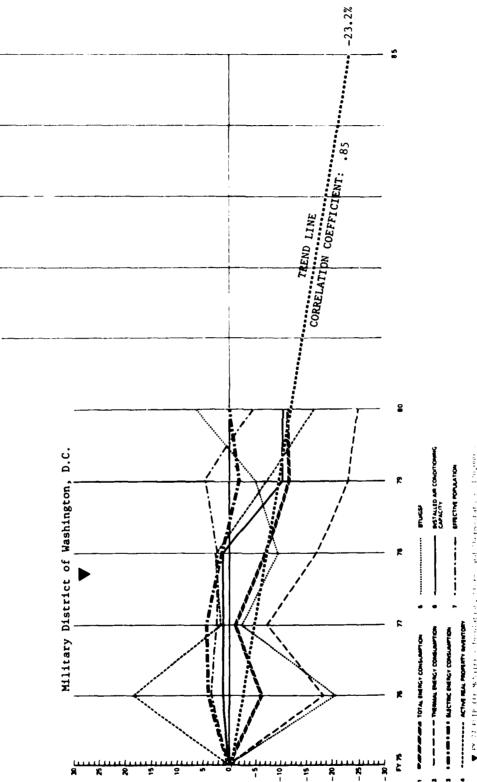
▼ FETP - Storms - SP6,712 - Completed June 1977



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HOO
CLIMATIC REGION
W USA
. MACOM
N - INSTALLATION C.S. MILITARY ACADEMY NY
ANALYSIS OF ENERGY CONSUMPTION
US Army

CAMTSON	ĸ	ę		R	r	2
•	1.945.931	1.227.23	6.27 0.27	15.0 - 1	1 3 10 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 11 1 1 1 1
The Commission of the Commissi	1, (19, 425)	1.272.325 (- 2.9)	1,355,875. 1,3,5,1	12.16.925 1.2.1		The street
UNBLO	635.506	-	-	631 155 1 9.91	619, 127, 1-2, 6, 1	- 120 00
MOME	11 532	11.571 1.0.17	-	11 22 1 3.01	11.950 1 3.9 1	11 010
	3 196	12.12 1 24.21	6,679 (109.0)	3.906 (22.21	1.362 1.36.4	022
e	Ĺ	17 (58 15.91	15.279	15,7% (7.2)	15,257 (31,61	13,118
		13 400 1 6.41	13,474 1 9,41	14.6 1 041.51	11,116 1 6,71	1 1 2 2 2 4
7 Effective Population*** 6 PD	L	112.6 1-15.81	115,7 (-12,4.1)	112,7 1-10,01	10,5 1-10,41	9 9 7
8		143.3 (- 7.2)	153.9 (- 1.91	13.0 1- 8.71	11.9.5 (-16.11	10.61
_	L	56.0 1.62	65.5 118.91	5 . 0 1 - 2.01	51,7 1-6.2	7.75
10 Electric En Consumphon/Resident Population TONS	5 165	5 345 t 0 1	1 6 , 531.5	6.821 (22.1)	6.21 1.27.1.5	6.821
		120.7 1 1.91	1,9'61', 9'1'1	19.05-1 0.26	90.8 1-23.	93.1
12 Elec Energy/Ton of As Cond & PD KSF	-	11.1 1 818.01	11.1 1 218.01	10,024 1-1,41	9 HHG 1- 3.7 t	19,158
13 Neal Property Inventory (NPM to PO KSF/CAP	81	177 1 - 5.01	1672 -1 52	76 (- 6.11	1 2.9 -1 27.	× .
BTUCSF	190.591	186.105 (- 2.4)	1572 1 0967507	145 249 1 2 81	174,060 1-7,61	182 451
15 Entirgy Consumption/GSF fo PD 8TU/GSF	128-347	1,6 - 1 111 121	131, 312 2, 3	121,353 1 - 5.41	113,433 (-11,6)	119, 792 (-4.
16 Thermal En Connumpeon/GSF to PD BTU/GSF	776 69	67 274	1	.71	63.627 (0.6)	P40 79
17 Electrical En Consumption/GSF is PO						
32		87.6			475	716
20	:91:	161	535	395	416	1,44
Mentenance & Production	-	ı			-	
Research, Development & Teaming KSF	252	563	1.0	9	9	5
2	Not Available Separately Included Above		253	257	276	268
35.2	144	144	144	157	236	300
3	107	857	85.7	780	741	1.4.1
2	2 533	2.531	2.531	2.402	2 295	2,106
353	1 980	1 989	1.989	1.754	1.754	187.1
KSK	166 1	378 1	1.34.2	1,312	3, 373	3.444
352	178	1.00	110	20	20	-1
25	711	711	711	107	107	11.
2	Mary Avendation RACS	L		360	184	رِ

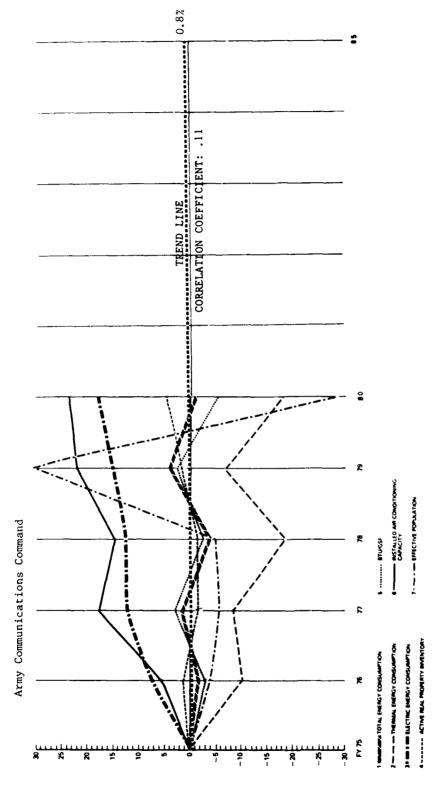
A-7



U.S. Amy ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION CELLITARY PLET OF TACH, P.C.	Y CONSUM!	PTION - INSTALLATION	IIARY PIST OF GASH, P.C.	MACOM YOR	CLIMATIC REGION 3 HDD 4,311 CDD 1,315	211 COO 1 CT	
				1 1 1		1 : 1	1
	UNITSAFY	ĸ	£	ш	*	£	
negy Consumption is PO	MBTU	1 182 321	1.107.525 '- 6.3'	1.159,548 (-1.1)	1,099,153 6-7,01	ı	1,747,049
hermed En Coms to PO	MBTU	54.1.868	441 010 1218 5		450,653	417, 029 (-23, 3.1)	1.78 805
METERCES En Cores to PO	MATU	157 819			648.500 1 1.61	625,543 1- 2,91	14. 88.9
adam Population is PD	FOFE	5 297	100, 7625	_ t	1.5 = 1 3.3.1	5,455 (3,01	
or Resident Population to PO	FOFE	27 830	29 160 1 5.51	29.360 1 5.5 1	29.360 ' 5.5'	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	29, 460
Pullman Served** 6 70	PEOPLE	11 127	14 2 1 284 21	34,480 (4.1 1	34,480 1 4.11	34.815 ' 5.1 '	11,41
The Parenteen is 80	ROPLE	775 71	-	14.907 (2.3)	14,907 (2,31	-	13,947
Communication Served to PO	METUCAP	15.7	12.0 1-10.51	33.9 1- 5.01	11.9 1-10.71	29,9 (-16,1)	i.
Commence of the fact	MBTUCAP	81 1	-	78.5 (- 3.3.1	73.7 1 - 9.11	68.4 (-15.7)	7.5
The fire Communication of the	MBTUCAP	120 \$	7	130.2 1 8.01	126.7 (5.11	114.7 4-4.91	15.1
And An Court Conserve Is 100	TOMS	770 6	9 166 1 1 1	9.166 1.1.1	9.166 (1.11	8,115 (-10.5	4114
	METLATON	7 0 2	10 1 1 2 12	12 2 1 6 2 3 1	10.8 t 0.41	17.9 1 1.77	H/
	KSF	7 80 7	17 81) 006 5	5 055 1 1.51	-	4,625 (-7,2)	25.1.5
	KSFICAP	70	2	19.0 1 25.	34 1	. 10 (-11.8)	
	#TUKGS#	917 716	-	ا_'	214,678 1 - 9,51	125,421 1- 5,01	161, 252
	BTUGSF	109 167	-	16.8 -1 784.99		17'411	b17. bt
	BTUGSF	128 153	ı	131 878 1 2.91	126 660 1-1.21	135,253 1 5,51	716 151
Charles in Contemporaries in 10	#S#						
, and a second	KSF	007	394	380	380	344	86
	KSF	195	246	240	190	371	573
	KG	ı	1		ı		-
	¥S.	520	412		2	8	ac .
	20.2	Not Available Separately Included Above		418	418	992	198
Carter Covered Statement	35	83	95	44	94	/9	14
Company of sections	KSF.	843	1.607	849	678	656	1 6
	#St	1.173	1,353	747	147	982	776
Postor Pouten	KSF	857	068	1.404	1.404	78R	h'18
Community Per sees	KSE	588	588	588	159	575	175
Burney Montal	151	194	95	56	96	65	(1)
Operational But drugs	KSF	129	220	O.C.	220	246	55
Unitry Buddings		- A					

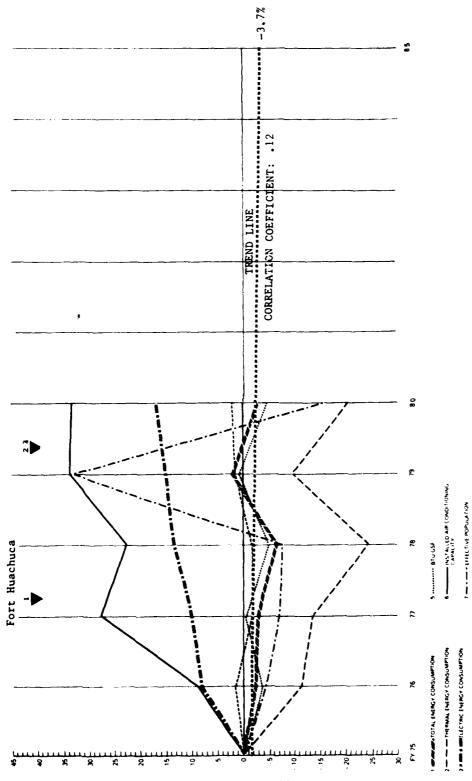
Includes Cameron Station, VA., Ft Myer, VA., and FtMcNair, Washington, DC.

▼FY 17 ECIF (Ft McMair) - Insulation, Storms and Thermostats - \$120,000 - Completed (estimated) June 1978



US Army AMALYSIS OF FIVERGY CONSUMPTION! - INSTALLATION CONSTITUTION M

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DI SELECTION OF A SECURITY	1	1.666.494		1 0 10 10 10 10 10 10 10 10 10 10 10 10		-
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702		15.055 1 - 3.91	1 5.5 -1	1, 932 1-4.7	1 20,460 130.5	14,162 4-29.0
MATINCAS		- a	- 5 0 - 6 0 0	10.5-1 6.08		0.0 10.08
SATURE A		707	116 1 7.4	-	85.9	118.5 4 2
MBTUCAP			1 2 2 1 2 2 1	73.6 1 23.4	[]	11 88.6 1 48.4
TORS	6 127	-	7.216 17.81	7,022 1 14.6	7,477 122.0	7,562 6 23
Set Turion		134.5 (2.01	125.6 1 4.7 1	129.2 1 -2.0	1 124.3 + 5.7	125.9 (-4.)
252	0	9.204 1 1.31	8.965 - 1.31	4.1-1 826.8	9,201 1.3	1 9,468 1 4.
KSACA		1.82 (214.1)	0,61 1 4.4 1	0.60 4 3.5	0.45 +22.4	0,670 15.
BTUCSF	186.73	181,084 (- 3.0)	192,111 1 2.9 1	182,038 1 -2.5	191,041 (2.3	
#TUKSF	L	86,809 (-11.3)	90,987 6 7.0 1	80,773 1-17.4	1 90,046 1.9 1	Ц
BTUKSS	L		101,124 (13,7 1)	7	1 100,995 (13.6	190,577 1 13
2	X				X	
S.	L					067
5						477
25.0						153
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9	Net Avellages Seperatory Included Above	BASE .				504
20						171
Z.						1.536
2						1,258
3.						883
a a						3,726
30						147
32						81
1						



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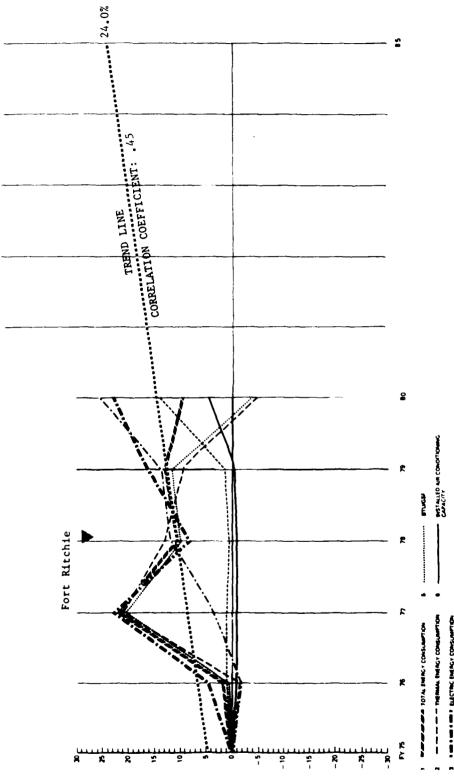
4 **** ACTIVE REAL PROPERTY INVENTORY

1 W HYTER LETTER A RELETED OF VITER

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	UMISEY	ĸ	P	11	R	R	8
	MARTU	Taganita I	1 1 1 1 Sto 14 1	(4.5. 1) (4.5.4.1)	1,325,445	R.1 1 (15, 27.7)	1 376.86
France Consumption to PD	Neg To	150 806	665, 416 (-11, 6-1	651.124 (-13.54)	5,60,92	1 679,516 1- 9.	02- 000 265 1
2 Thermal En Cons to PD	DI BABTO	166. 63.3	;	10.01	i	1 766,261 (14.8	لِا
) factorist in Com is PD	F. 09.	5 A	4 - 5 1 81.711	-	2777 57701	16, 193 1 18.5	1
4 Resident Population is PD	PLOP.	12.5	1 2 2 2	5.944	6.039	1 4,316 1-5.6	
5. New Resident Population to PD	FOP.	1611	15.941 1-2.41	16.185 (2.0.2)	16.374 - 0.2	1 20,719 1 26.2	1 288
8 Population Server1** & PD	HOPLE	11.363	12.792 4- 7.3 4	10,7 50,51	 	17,832 1 33.4	
7 Effective Population*** Is PD	METUCAP		15.0 1 0.51	44, N L 2, 3.3	5 9 -1 6 08	1	
I In Communication Pop Served & PD	MOTUCAP		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	111.5 1 4.01	10.1 1.0	1] 81.1 (-23.7	122,2
9 En Communiques 64 Pag fr PD	MBTUCAP		64.3 (13.9)	10.35 1 25.71	9.051 1.15	1 46.7 1-17.	85.0
10. Electric En Consumption-Resident Population		9	18.4	5.168 (27.5)	4,954 1,22,7	1 5, 19R (33.6	5.375
11 brassled As Cont Caperdy to PD	MOTUTON	165.3	164.4 '- 0.5 '	175.6 (-13.7)	152.5 6 7.7	11 142.0 1-14.	
12 Fine Energy-Ton of As Cond to PD	25	7 300	1 5.1 1 105.7	7,162 (- 1,01	7,161 1.9	7, 191 (1.2	7,436
13 Real Property Inventory (RPI) & PD	KSFCAP	\$5	19.5 1 85.	15'S NS	2.4 1 42.	1 41 (-24.1	1 99'
14 MPUE Machine Population	8TU-GSF	194 586	187, 282 1- 3,81	143,433 (-0,6)	185,040 1- 4.9	195,613 1 0.51	185,162
15 Energy Consumption/GSF to PD	87UGS	103,131	89,895 1-12,83	14.11-1	70,567 1-22.8	6.01-1 860,16 1	91 80,285 (-2
16. Thermal En Consumpress/GSF & PD	BTUGSF	91 435	18.9 , 988.76	102.519 (12.1)	1.15.473 1.15.3	1 103,674 1 13.0	104.877
17 Electrical En CompanyproviGSF IB PU	2						
18 Net by Catagory	ž.	4.16	27,	761	392	667	411
	KSt	419	433	615	414	419	403
Memercs & Poducton	25.1	113	121	132	132	132	153
Massich Development & Total	25.2	851	362	11	11	21	10
	25.	Nor Available Separately Included Above		348	348	352	19.1
Other Covered Storage	25	170	176	168	168	166	151
Posperal is Medical	25.2	141	726	457	05/	79.5	83.
Administration	3	1.508	1 478	1.227	1,297	1.298	1.025
Bechelor House of	15	077	109	009	009	675	673
Community Far Arias	35.	2,749	2.006	2 × 4	2,8H5	2,885	3,273
Ferrely Houseng	2	65	4.2	Ŧ	6,8	89	83
Operational But drips	35	7.0	2.0	102	70	70	2.1
A Parties	25	Not Available BASE		.7	14	14	

1♥FY 76 FULP - Floritical Alterations, Gooling System Alterations and Solar Film - \$472,773 - Completed December 1976 **2♥**FY 79 FULP - Insulation & Window Alterations - \$75,000 - Completed (estimated) February 1980 **3♥**FY 79 FULP - Energy Centrol System - \$478,000 - Completed February 1980

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72 Eamily Monoing CLPP Empressment, and office or opioted to transfeds betake 1955

U.S. Army ANALYSIS OF ENERGY CO	HOLL CONSUMPTION	PILON - INSTALLATION	er Rifchill im.	MACOM ALC	CLIMATIC REGION HDD	HDD 2 193 CDD 164 0		
			1 1 1 1	1 1 1			1	
	CRRTS.FT	Æ	£	u	P		ş	
Engry Consumption & PO	168 TU	191 92	1971 1 1970	1 9 66 1 500 925	15 701 1 056 5000	10 to 112	2.67 H.V	-
2 Thermal En Cons to PO	- T-884	135 450	12 65 1 1	161,570 1.11.1 1	10,11 7,8,1	13.6 1 1000 5.1	(406 x.1	-
S Electrical En Cons & PD	2,99	140 744	(-	1.5. 830 1.2.0	10 x 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16.79	1.6	-
Readent Population 6: PO	FOP.	1 202	19.7	70 - 070 -	1 94 1 16 51	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		-
5 Non Readers Populerum ts PD	HOPU	~ (% -	2 C - 01X 1	1 934 7 6 6 1	1,41%	-	17.60.0	-
6 Population Served** 6 PD	100	3 474	19 1 = 1 929 1	3,675 1 4,31	24.	5,145 1 65.74	5,543	-
Effective Population*** 6 PD	300E	2 310	10.5 -1 5.01	2, 046, 1, 1, 1, 1	19.11 1 285	18,81	, x.	-
8 En Consumption/Pop Served Is PO	MBTUCAP	78.5	x0.7 1 1.61	-	10.00	60,8 1 22,49		-
9 En Consumplianté II Pap la PD	MBTUCAP	119 6	-	1.1.7	1 1 1 1 11	1187 1 2 3	104.1	-
10 Electric En Consumption/Resident Population	MBTUCA.	- co	19.7 1 7.61	: .	16.7 -1 2.31	19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1(19.7	Ī
33 anstelled An Cond Capacity & PD	TOMS	2,089	-	10.1 -1 80.5	10.1 -1 490	1,019 1 670,5	11.7	-
_	METUTON	67.2	-	1 1 2 1 1 2 3	15.9 4 6.21	118.4 1 16.71	5.5%	-
	15	1.786	1.843 1.01	1 404 1 1,04	(5°0) S6.2°1	5.1 2 clx.		-
14 MPVENective Population	R SFICAP	II	10.1 104	11:5 745	(+ J (- 1 t) + .	₩"u[- 161"	1.7.	-
46.70	8104GSF	154.644	_	186,854 120,41	170,015 1 10,01	172,371 1 11.54	148,277	-
٤	BTUCSF	021.97	14.2.1 0.1.27	10,911 475,12	13.51	11.8 1 OCE CH	13.4.8.4	-
	BTUGSF	28.524	81.503 (3.8)	17.12 1 085.56	81, 470 1 7,51	40,051 1 14,71	84,842	
	KSF							$\langle \cdot \rangle$
	KS#	5.0	5.0	5.1	5.1	64	1./	
ce fr Production	¥S¥	.9-	79	74	1	7.4	0.7	
Testing	ZS.							
	ž	75	7.5		1	_		ŀ
wered Sexual	_	Mor Available Separately Included Above		33	16	41		
	ΥS	, c	6	ė,	œ.	o	X-1	
	XSX.	561	1 96	5.85	646	414	707	
,	¥St.	158	358	25.5	220	221	15.	
	KS#	681	1,43	1,0	155	155	017	
	#St	157	15.57	455	4.5.5	455		
	153	557	. 11.7	5.3	13		4	
	KSF	1		1	85	30	8.6	
		Not Available BASE	20	156		-		İ
	-		7.11	QCT.	J			

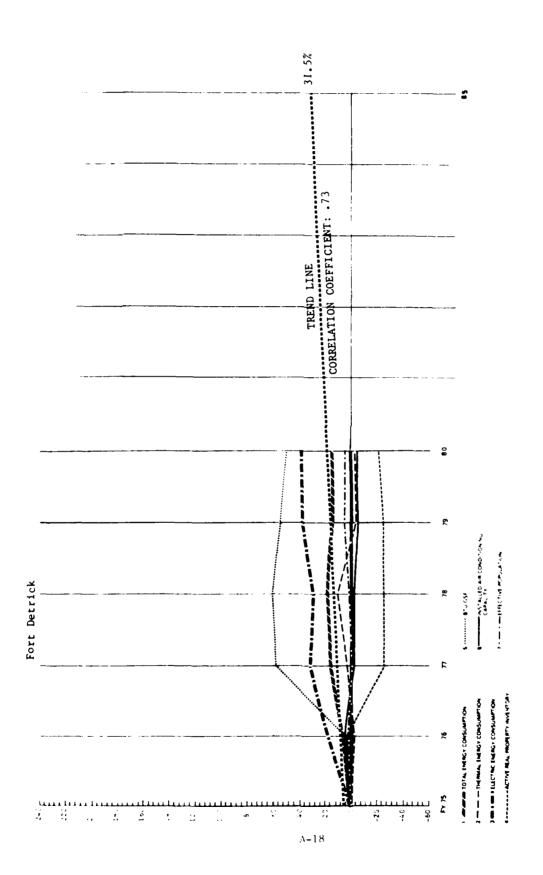
▼FY 77 Family Housing ECIP improvements - \$65,795 - Completed (estimated) Detober 1978

AMY ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION CONSOLIDATION

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J. 00	3,754, 325	3.926.898	9.,	2.234.415	- 13.81	4,745,600	1 797	818.686°	6.56	L
See TU	2 215.868		1 0 7 -1	2, 21, 735	1, 0 - 1	2.414.963	1 0.6	2.4.09.792	8.8	L
J. 100.	1.538.457	1, 755, 595	1 7 7 1	2 021 681	1 11.41	7.130,617	1 5.16	2.380.026	1 67.71	Ш
FORCE	941.2		114.4	1.116	1-35.21	107.5	1.01	5.8.5	11.11	Ш
FORCE	11.862	12.968	1 6.3 1	13,781	1.16.21	716.51	181	186.11	10.1	
MONE	17,011	17.373	1.2.1.1	17,115	19.0	17,520	10.6	17,806	17.5	Ц
30 OF 1	9,104	8.728	1-6-1	7,928	16.51-1	801.6	1	9.819	16.7	
METUCA	L	226.0	1 2.4	247.4	117,11	2.70.9	1 22.21	380.3	10,15	Ш
MOTUCAP		6.644	- 1.6	5.44.1	1. 29.51	509.8	1, 23.6	5.808	7.57	L
METUCA		398.5	133.4	÷-909	102.91	6-7.44	16.65	6.24.	1 48.2	Ľ
	22	18.939	1 4.7.4	27 111	18.21	787 72	1 4 4 1	24.099	7	Ц
METUTOR	L		1 18 2 1	74.4	1111	1 56	1 42.0	107.1	19.65	L
Ş	,	2.515	1 9 0-1	7.298	1- 3.21	9. 190	1 24.5 1	10.090	13.8	Ш
KSFCAP	0.83	0.86	- 6-1	0.92	1 11.11	10.1	1 21.8 1	1.01	3 , 26.0	╚
BTUGGE	497.789	522.541	1 5.0 1	580.216	1, 16.61	6 81 505	1.51	11.5 -98"	1 - 11-7	Ц
BTUGSF	293.804	288.929	1-1-1	303 197	171	581.755	1-12.5 1	2.18.830	1-18.7	Ц
BTUCS		_	114,5 1		1 35 81	26.8.20	1.1.1	255 701	1.25.41	Ц
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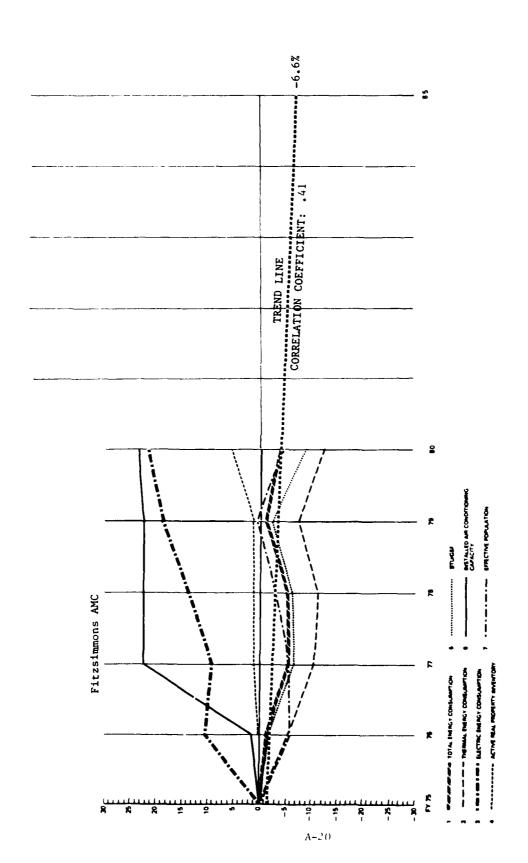
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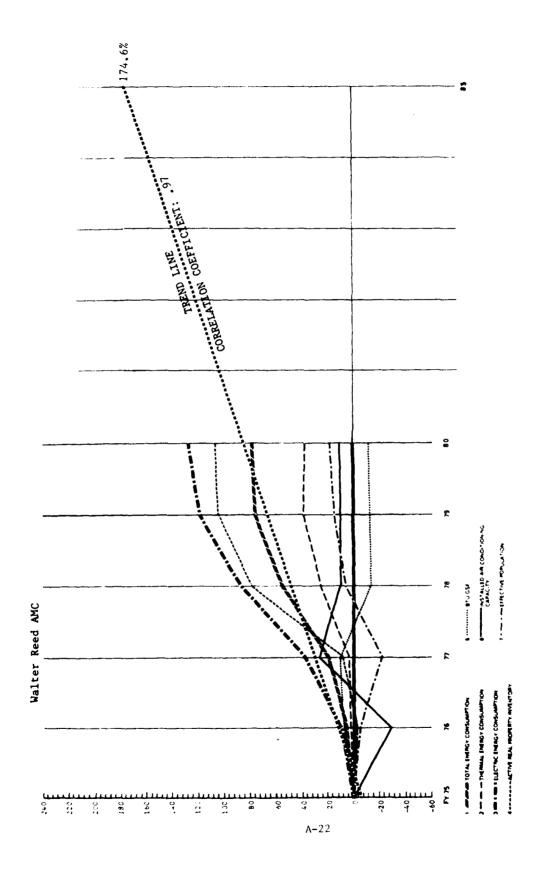
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4 Resident Population Is PD	POPLE	25.8	-'	-	1429 1- 4.83	8.5 1 5.8	1 - 1 4
5. Non Resident Population Is PD	PLOPLE	io.	-	2,425 1 10.01	10,403 (9,01	(1)	11.5
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9 to Communican EM Prop to PD	MBTUCAP	956.9	17.4	1,122.5 1 12.40	1,114.4 1 16.51	11.8 1 4.750,1	701 19 7.0 1
10 Electric En Consumption-Resident Population	MBTUCAP	0.297	917.4 1 19.51	1,123,9 1 46,49	17.18 + 3.050	1,100.2 1 56.61	1.110.6
11 Impacted As Cond Capecity to PD	TOMS	6.933	17.1	18.1 . 1.81	18.(-) 655.9	6.516 (- 6.*)	6.586
12 Elec Energy Ton of Ay Cond & PD	MBTUTON		111.4	131.9 1 14.67	138.5 1 11.24	ъ.	142.74 35.0
13 Real Property Inventory (RPI) to PD	2		2.0%	1,479 1,26,89	1,483 (-76.6)	1,445 (-74.34)	1.534 1-23.
14 MPs Flactive Population	KSFICAP	15-1	1.25 1 0.91	12.45-1 50.	19.75-1 00.	. R7 1	57-16
15 Enargy Consumption/GSF & PD	Brucse	270-114	796.842 1 3.41	1,222,976 1 59.01	1,219,952 1 61.01	1,100,923 (54.54	. 1 141 164
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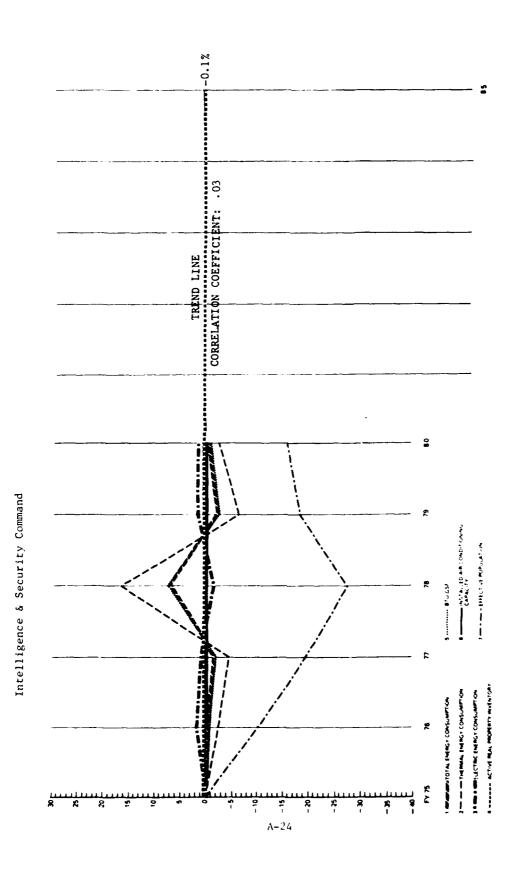
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- INSTALLATION _
ANALYSIS OF ENERGY CONSUMPTION -
US Army

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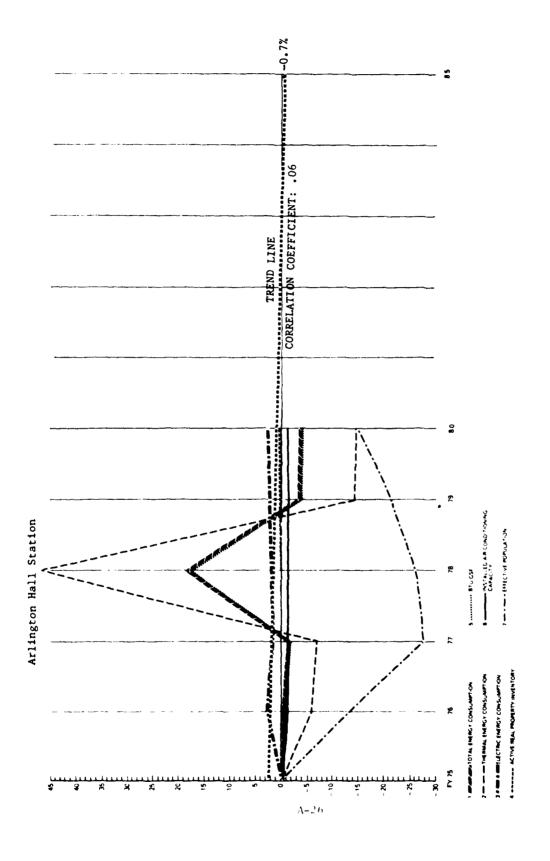
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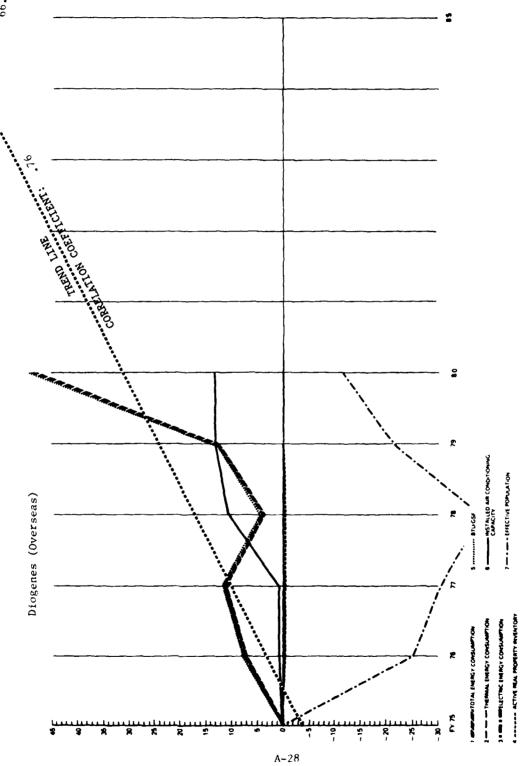
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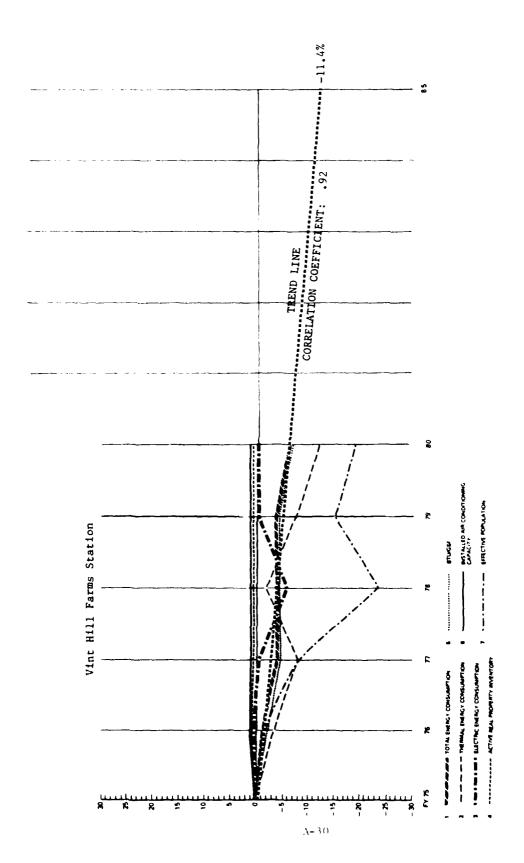
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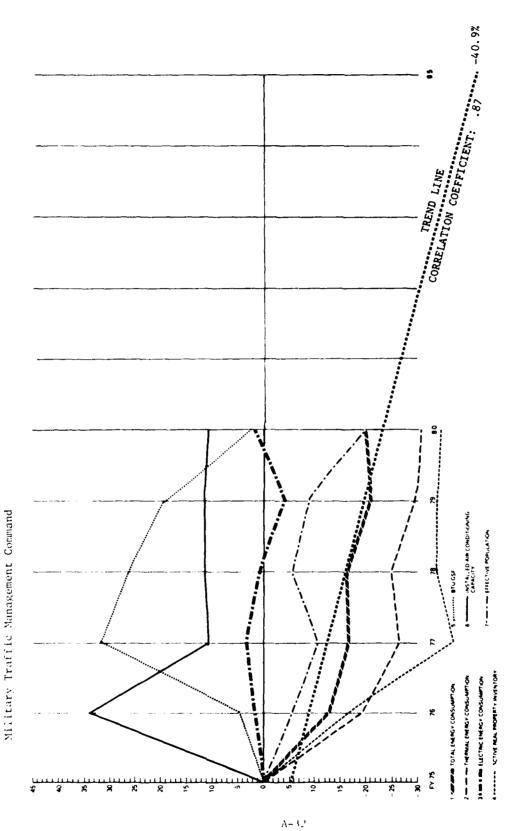
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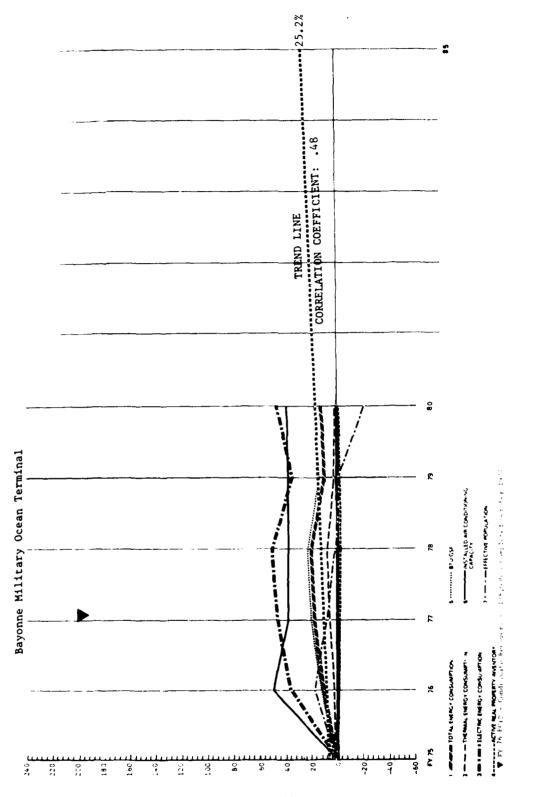
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Children Building			:	Design of all a fee that Resident is not resident reported			



ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION CONSOLIDATION

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Consultation It PO	360TC	1,544,276	1, 106, 57	1 1,2.6,981 +	1,251,718	- 16.21	1,181,816	1 6 02-1	1,196,547	6 61-
160 (200 180)	J. 000	7, 2000	C. #1-1 (C. 1908)	147.4 57.47.1	1 753,800	-7.2.7	708.290	- 0 -	695,475	
	200	243,325	501.182 (1.6	309, 356 1 3.	1 416, 494 1	5.0	473,616	10.4.7	501.072	-
1	100	86.5.	1.176 1-1.0	1,177	1 008 1 1 6	10.4	1.241	-	706	1 - 27,0
	100	5.688	14.6 -1 58.6		170 5	17.11-1	1/8.7	1 7,4 1	4.80%	5.51-1
2 Carrett 1 Carr	502	6.925	3.5 -1 5.5	5.51-1 650.4	6,321	1-65.31	6,112	- H. P.	5, 708	1-17.F
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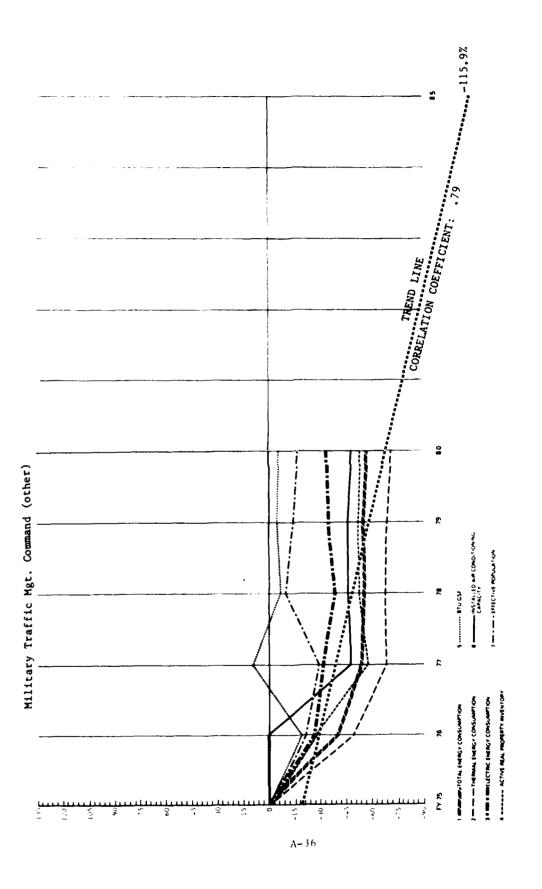


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CLIMATIC REGION 3	
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ANALYSIS OF ENERGY CONSUMPTION ~	
US Army	

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MOTUCA	253.8	-	234.9 1-	17.7	261.1	1.7		17.71	285.7	12.6	7	5.8. 1 8.21
METUCAP	501.8		481.1 1-	7.7	543.1	10.8	\$ 247.5	1 19.1	566.7	4.51	5	7 36.4 1 46.8
_	274.7	L	343.6	25.11	406.0	18.72	418.5	1 52.31	7.618	1.18		714.6 :160.1
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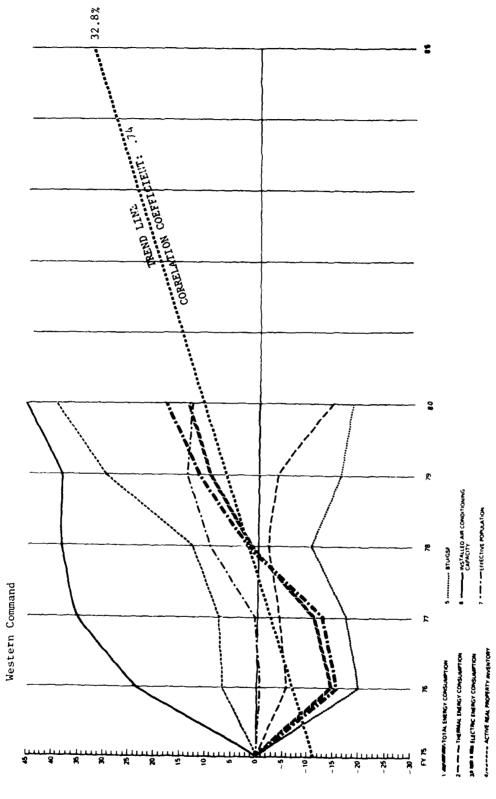
♥FY 76 ECIP - Condensate Recovery - \$128,000 - Completed October 1977



CLIMATIC REGION 4 HDD 2, 384 CDD 1, 565	
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ANALYSIS OF ENERGY CONSUMPTIC	
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	UNITSURY	£	£		R	r	8
Friengy Consumption & PO	MBTU	200 579	416,005 (-40,6	61 317,713 1-54,61	107, 304 1-56,81	100	298,928 1-57,31
2 Themselo Cons to PO	MATC	00.00	! .	06.3 61.6	136 680 1-68 21	131.483 (-69.41	120,150 1-72,011
3 Emercial En Corra de PO	Meru	771 070	1 4 4 C - 1 5 C 3 KG	184,113	165.624 1-38.91	176,520 1-14,91	778
4 Resident Population & PD	ROPE	607	١.	376	\$0.81 1 30.01	188 1 6.81	453 1 5,61
8	ROPLE	1 169		2,151	2,637 (-21,7)	2,595 1-23,01	2,500 1-25,81
	PROPE	1 798		1.5	3,143 1-17,21	3,053 1-19.61	
P	ROME	1 550	1,212 (-21,01	200	18.01-1 1981	1,323 (-14,8)	1.287 (-17.11
8	MASTUCAP	187. 4	151.3 (-14.0)	7 5.1	18.72 1-47.81	100.9 1-45.31	101.2 1-45.11
	METUCAP	1,157	7.	19.56.1 7.000	19.18-1 1.51.61	232.R 1-48.4 1	232,3 4-48,54
10 Electric En Consumption/Pranciery Population	MBTUCAP	611.0	خ - د	5.189,7	377.3 (-48.2)	385.4 1-39.01	394.7 1-37.51
11 Installed As Corel Catacoly to PD	TONS	888	-	302	315 1-46.41	314 1-46.61	100
12 fine Emerged on of As Cond to PO	METUTON	461.0	337.0 1-24.	16	11.11	562.2 1 21.9 1	593.9 1 28.81
13 Real Property Inventory (RPI) (9 PD	#S#	8.472	-	1,520 1,521	3,948 (-53,41	3,938 1-53.5+	3,858 1-54,51
14 Profitment Property	RSFICAP	5.46		3.22 (-41.01	2,85 1 -47.81	2.98 1-45.51	2.99 1 -45.21
15 framov CommencementSSF to PO	BTUGSF	87.682	67.074 '-18.	15.6 1 9.2.19	16,571 1-7,41	78,213 1-5.41	77,483 (-6, 3)
18 Thermal for Consumption CSC to PO	BTUGSF	50 686	15.071 (-10.	ĩ.	34,620 1-33.71	33,388 1-34.11	31,143 1-38,61
17 Electrical for Commence Coff to Di.	87UCSF	33 996	-	ļ	11.16 1 180.12	11.051 (40.11	18.340 1 44.81
19 Mr by Concert	¥S¥						
Tremmer	35	3.7					29
Manuscra is Post-class	KS.	650	129	130	128	128	66
Control of the contro	35	1	1	1			
	KS	5-862	4.108				
The County of th	¥S¥	Not Average Separately Pichaled Above		BASE 2 344	2,545	2,545	2,487
The state of the s	35	29	18	18	18	18	18
Attorney	KS	1.462	1.094	438	458	563	539
	KSF	676	156	191	204	20%	204
Date of the last	18.8	Ot 5	104	216	207	2.07	204
	KSF	17.2	167	167	167	167	167
The state of the s	#St	91	2,1	12	12	12	17
COMMENTED BY THE PARTY OF THE P	#S#		1		_	_	
Child Business	252	Mor Avadable BASE	214	7	209	9%	94
		*PD is Percent Deviation from Sass Yes		"Population Served at the total Resident is Non-Resident Population	eron "*EN Pop a Readent + 1/3 Non-Readent	1/3 Non-Readon	

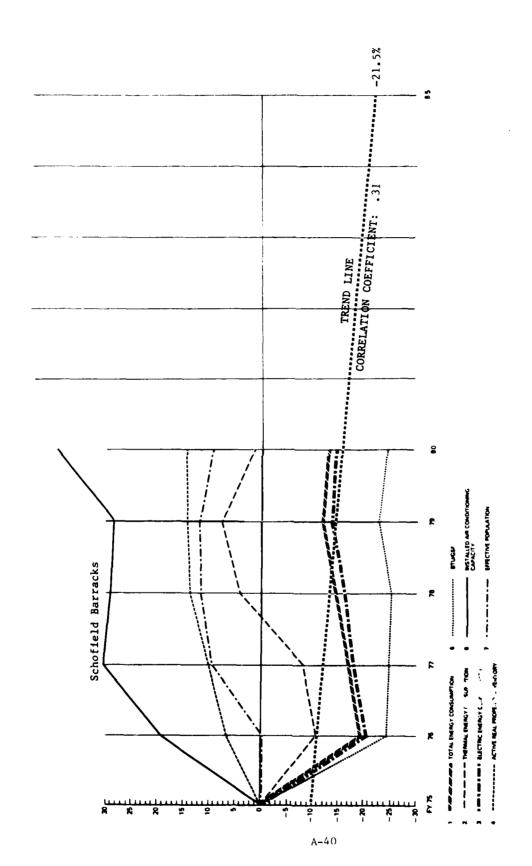
Includes ail MPAC activities except Bavonne Military Ocean Terminal, NI, which is reported separately.



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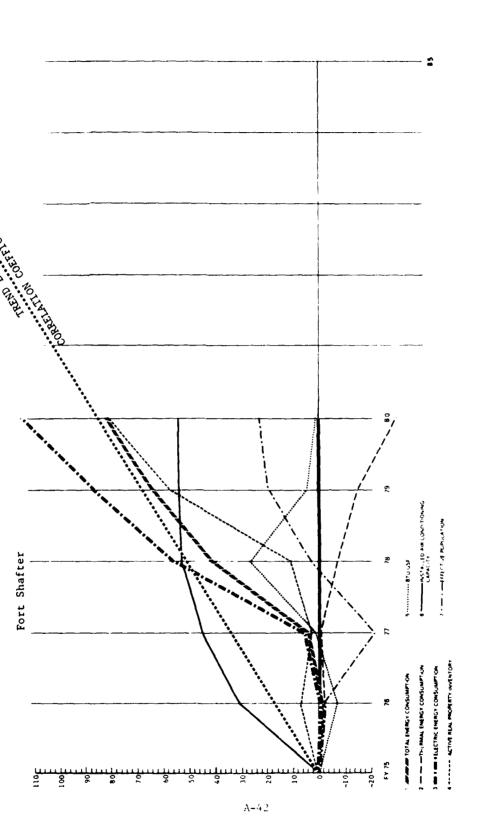
U.S. Aumy ANALYSIS OF ENERGY CONSUMPTION ... INSTALLATION CONSOLL DATTON

	UNITSFY	r	P		2	R	0
1 Energy Consumption is PD	ULBT.U	2.570.900	198,17	1.282.253	1 (1 -) 441 - 100 - 5	2.817.203 (9.61	2,924,624 1 13.81
2 Thurmal En Coms to PO	MBTU	111.962	314.119	319.936	18.1-1 4.8-7.5	121,900 1-1.6.	286,169 1-14,31
3 Electrical En Corte Se PD	J184	3.7 46 9.18	!- !	1.962.132	-	1 5 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2,638,455 (17.9)
4 Resident Population is PU	3 OF	20.202	26,140 1 - 0.2	28.9% 1.10.51	31,747 (21,23	33,218 (26,81	32.994 1.5.91
5 Non Readers Population to PO	HOLE	14,483	19.051 1.0.91	1 6.620 1-53.91	6,466 (-55,41	1 6,290 1-56,61	6,134 (-57.61
A Pronteson Senator to PO	NO.	40.683	40,191	15.21-1 212.51	18,213 1, 6,1	805.68	18.6- 1 821.98
Of the new Presidence is PO	FOP.	31.030	30.823 1-0.7	11.168 ' 0.4'	33,902 1 9,31	18.61 1 218.28	15,039 1 12.91
B for Communication they del for PD	MBTUCAP	63.2	54.7 1-13.41	64.1 1 1.43	18.7 1 1.84	71.3 (12.8	74.7 1 18.21
P for Consumerated Pro to PO	METUCAP	6778	71.3 (-13.9)	73.2 4-11.6	16.7 -1 8.67	79.8 1- 3.71	83.5 1 0.71
10 Flactor En Commontant Provintino	METUCAP	85.4	72.1 (-15.6)	67.8 (-20.61	7777 (-16.0.)	15.1 (-12.0)	80.0 1 -6.31
11 household has Count Conserved in PD	TONS	7.549	1 0.42 1 24.0	10.321 1.35.81	10,523 1,38,51	10.512 1 38.31	11.040 4 45.31
12 Shee Second Con of the Count to PO	METUTON	294.4	. 6	190.1	216.2 (-26.5)	237.4 1-19.41	239.0 1-16.81
22 Bad Breasty Indiana (BP) 6-20	KS.	17.549		18.845 1.41	19.789 12.8	22.848 (10.24	24,427 (39.21
14 Market Comment of C	KSFICA	0.57	4 7 1 19 0	.6-9 , 09-0	0.58 1 3.2 1	1 59	0,70 1 22.81
16 fearer Creater Contract of the Party	BTUGSF	146.438	1 6 61-1 605 711	121,107 (-17,1)	131,546 1-10.2	123, 302 (-15,8)	119,729 1-18.31
16 Demand for Continuous CC4 to PD	BTUGSF	19.030	16.776 '-11.8'	16.977 (-10.8)	16,366 (-12,9)	14,089 1-26,01	11,715 (-38.41
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	BTUGSF	127.468	100 632 (-71.1)	10± 140 1±18 1	9 -1 0X6 -11	11. 11-1	108,014 (-15,3)
10 market or Commission or C	KS.						
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	KSK						
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Comments, Connectional of Comments	KSF						
A Control of the Cont	#St	Not Avadable Separately Included Above	BASE				
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Fernaly Houseng	2						
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Charley Burdenge	KSF	Not Avelable BASE					
		*PD as Precent Devasion from Base Year		**Population Served at the total Resident & Non Resident Population	mon 1/3 Non is Resident + 1/3 Non Resident	+ 1/3 Non Resident	



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Union Union Union Horizon		131, 811, 4, 8, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	2820 2820 2820 1832 1857 1857 1857 1857 1857 1857 1857 1857	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	1 (1) 1 (1)
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SSI		21,720 114, 91 21,170 1-54, 10 24, 171 1-51, 11 24, 171 1-51, 11 24, 171 1-51, 11 27, 17-28, 91 27, 17-28, 91 12, 17, 11, 11 12, 17, 11, 11 12, 17, 11, 11 12, 17, 11, 11 13, 10, 11			11655 25 881 25 882 25 97 61 61 61 61 61 62 21 9 12 657 12 91 12 5 94 13 94
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FOOL BETTLES OF THE STATE OF TH	290 (-2 57.1 (-2 57.1 (-3 64. (-1 -1 591 (-3 7.7 (-3 7.8 (-3 7	24, 84.9 (1.0, 5.1 24, 87.1 (9.1) 1 28, 11-23, 4.1 62, 11-23, 4.1 63, 16-28, 9.1 13, 16-28, 9.1 14, 16-28, 9.1 15, 16-28, 9.1 16, 16-28, 9.1 17, 16-28, 9.1 18, 18, 18, 18, 18, 18, 18, 18, 18, 18,	57.4.1.2 57.4.1.3 57.4.1.3 57.4.1.3 57.4.1.3 57.4.1.3 57.4.1.3 57.4.1.3 57.4.1.3 57.4.1.3 57.4.1.3		15.881 22.917 61.01 65.02 12.02 12.02 12.02 12.03 13.03
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##TUCAP ##TUCAP ####################################	64. 1 (-1) 64. 6 (-2) 591 (-1) 759 (-2) 279 (-2) 528 (-1)	62.11-24.4.1 7.61-28.91 6.093 1.31-31 224.21-37.31 12.147 1.10.01 12.492 1.24.91 12.492 1.16.61	57.4 57.4 53.0 53.0 53.0 53.0 53.1 53.1		65.44 6.539 2.539 2.539 12.657 53 73.316
104800 10	54, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6,	57.61-28.9 1 6.091 (30.2) 224.2 1.37.3 224.2 1.00.0 1 12.147 (1.10.0 1 124.97 (2.2)	57.4 1 054 1 537 1 587 1 731 1		60, 3 c 21, 91 21, 91 12, 557 c 125, 974 1 3 3 16
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15 (19) (19	237.1 (-1 750 1 .534 .279 (-2 528 (-1	224.21-37.31 12,147 110.01 50 0.61 124,971 1-24.91	1 1 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	·	21, 91 12, 657 1 125, 974 1 11, 216 1
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53 53 Cume (
15 X Campo	108	132	135	145	171
Toward K.S.	847	808	RIPR	809	826
25 Y Company			USS		
	1,357	32.6	374	376	376
KSF Nedable Separately included Above	BASE	879	166	981	586
•	116	120	120	112	112
speed to Methods	339	267	259	197	797
2.	2,129	1,941	1,406	1,960	1.950
States House g	776	1,009	1,011	1,016	1.026
7	7887	5.857	S, RSA	\$06.5	5.905
ms# 902	965	888	656	656	958
	47	47	1 25	ψ	.09
Mry Buddings Not Available BASE		35	29	26	26

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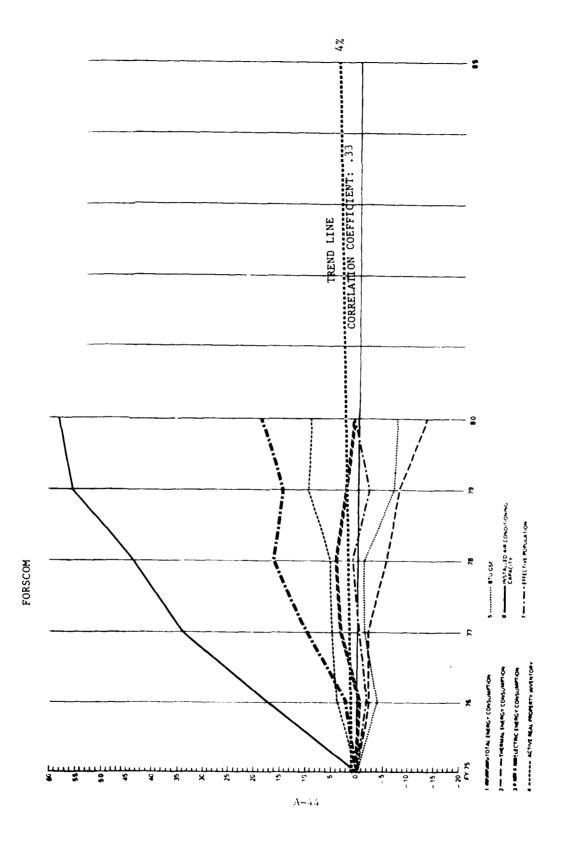


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ANALYSIS SE FNEHOY CONSUMPTION
US Army

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#10/CSF	112,546	107,122 (-1.51	115,000 (1.3.)	1.2.2.1 062.231	17,278 1 4,21	113,014 1 0.4
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ž.	813	אוא	čun	FO3	744	803
KS.	5.15	, ser		003	411	51]
KSF	354	13.7	150	1919	173	12.5
154	746	1.194	1.07	1,10%	1,094	24:0-1
#St	1.503	1,478	1,463	1,:17	4,831	6,236
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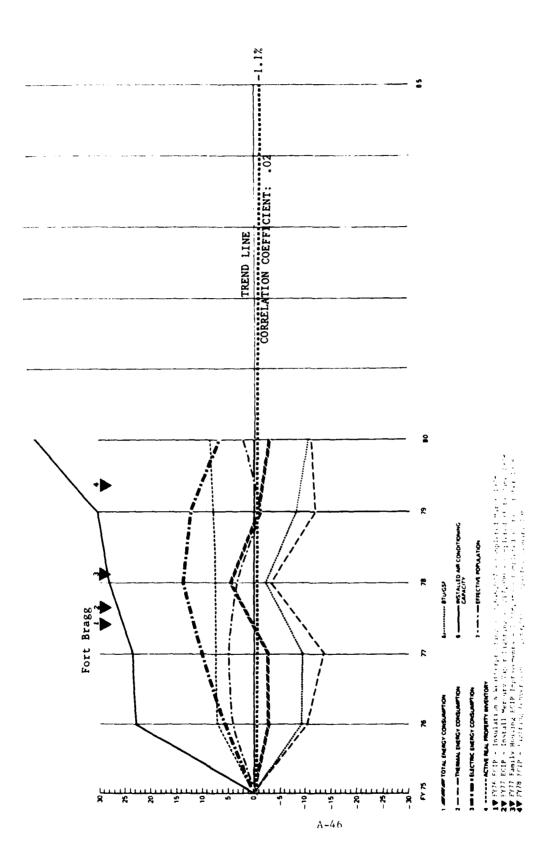
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U.S. ALMY ANALYSIS OF ENERLY CONSUMPTION INSTALLATION

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Energy Comumption Is PD	: 	f	£	2	•	*	\$
2 Thurmal En Cons & PD		(F, 7)4 F			3	1.7	1 1 188 84
3 Electrical En Cores In PO				1	**	5'x - 27'57'57'	1-1 57.02.6
Resident Population to PO	÷	1. 1. 1. 1. 1.			1.93	2 2 3 X 7	
Non Resident Population to PC	Ē			4.7	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	119, 194	13.5.5
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THE COMMUNICATION SERVED IN PLOT						-	
7 th Consumption (11 Pag & PO		7				.	
10 Ehictaic En Consumption/Resident Population	_						
11 Installed As Cond Capecay & PO	MBTUCAP					7	
12 Elec Energy/Ton of As Cond in PD	LONS		[16:21 - 16:21			145, 86,8 1 55.6	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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14 MPM Herbard Prontermon	2	196,945			1 7 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	18.5 1 191	R1 278,431 1
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16 Phermal for Consumerous Case & man	250.05	205,188	* 2	1 1 4 W 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16.4 -1 556 (161	117 PM 1 16
17 Statement for Commence Con to	300.5	111,645	167,113	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	101,451 1-11,44	1.41 1 295 1 16.1	11.7-1 955 06 11
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Bushing Agency	2						
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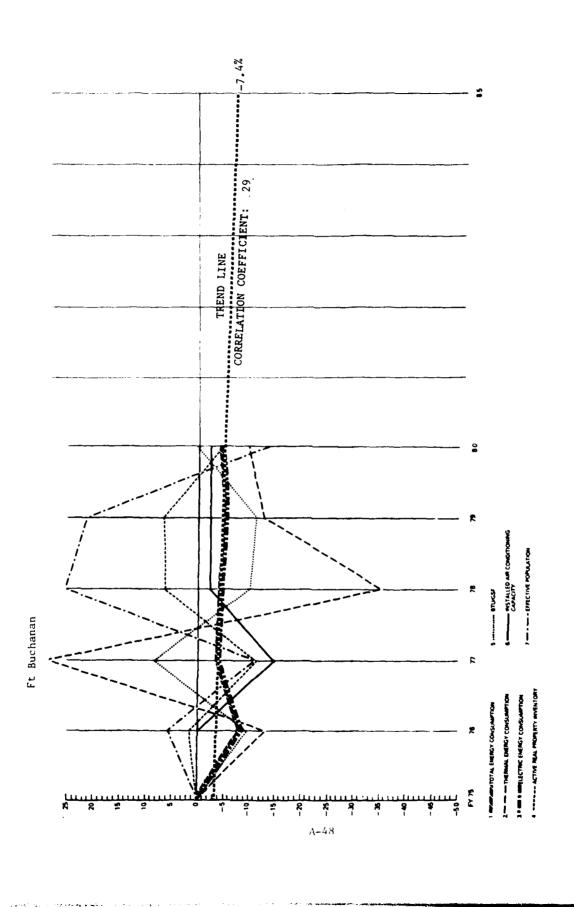


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TEOP!	36,352	17,813 1 4,91	11, 2 1 2, 41	1 7	35,673 (-1.3	611, 119
	134.9	122.8 1- 8.91	17.2 1 - 4.91	134.8 1- 6.41	15:1 1-4:2	1.3.1
En Consumption Payed 9 PU	154.7	166.7 (- 6.71	15.2 -1 2.51	10.1	12.0 1 1.551	147.3
_	76.8	19.0 1 2.61	19.5 1 6.14	19701 1 1078	6.11	1 82.4
5	15.696	19,285 1 22,91	10,364 - 33,3-1	10,075 (27.9)	20,611 196.21	1 22,393
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13 And Property Inventory Safe 8 PD	0.56	12.2 1 45.0	0,52 1 2,61	1 4.5 1 92.0	10.6 1 6.01	109
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	147,900	124,248 (-16,91	119,274 1-19,41	133,481	1-1	
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2	1.213	1,241	1,744	1,379	1,437	1,440
_	2	38	4.	الع	3.8	38
Manual Development & Teams	1.481	1,455	61	19	89	899
32	Not Available Separately Included Above	PASE PASE	1,352	1,347	1,340	076'1
252	776	776	660	(59	879	959
3	696	1.041	866	1,941	1,114	1,126
32	7.097	7.385	7,344	7117	7167	1,399
2	1.539	1,603	1, วัคก	1,577	1,521	1,588
3	5.975	6,726	7,031	110 /	7,031	7,031
3	637	646	613	437	769	779
25.7	144	170	179	170	170	170
1						

1 Try 16 ECIP - Insulation and Weatherproofing - \$2,566,027 - Completed March 979mm 5 Northeader Produces ...

^{2 ▼} FY 77 ECIP - Install Mercury Vapor Lighting \$217,000 - Completed (estimated) June 1978 3 ▼ FY 77 Family Housing ECIP Improvements - \$238,980 - Completed (estimated) October 1978

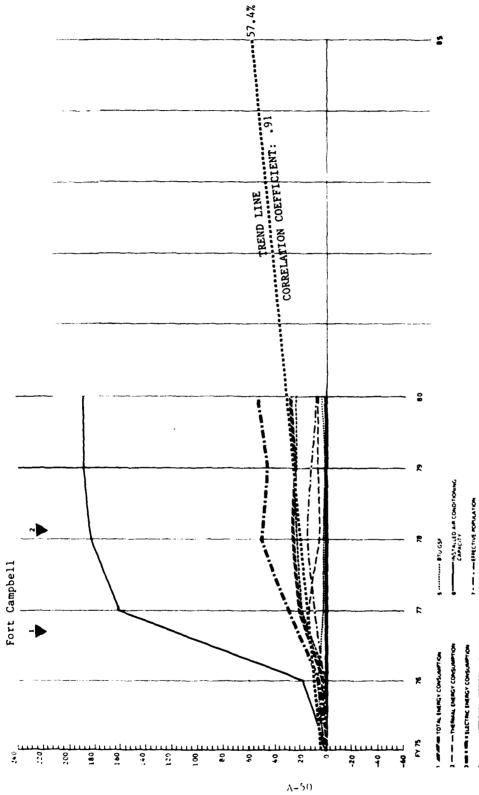
^{♣♥}FY 78 ECIP - Lighting Conversion - \$2,789,000 - Completed January 1980



S Army ANALYSIS OF ENERGY CONSUMPTION INSTALLATION TT. Bucharian, PR

MACOM FORSCOM

CM: 1264		£	:	H	£	
MRTO	212,869	195,543 -8.1		203,349 -4.5	201,483 -5.3	.03.5
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STR70	212, 094				-	8.0
FOR.	2017		•		-	4.1
POPLE	1,070		-		-	50.
3404	3.264				-	3.57
140 M	2,551	2,700 - 5,8 -	Ī		-	017 7
WATUCAP	65.2	ş	-		-	
MBTUCAP	4.68	72.4 1-13.2	•	•	65.2 '-21,8'	6
Merucan Merucan	96.7	149.9 - 55.0 -	-		-	132.
-	614	10 1 619	-	-	-	:09
Majuton	9 25%	1. 8- · H. 418	-	-	-	315.
152	1.879	1.4.1	1.66811.2.	1,999 ' 6.4	2.005	1,79
de C	74			. 62 (-16.2	-	8
Brucsf	113,288	~	1.2.608 (8.2)	101,725 (-10.2	100,490 '-11,3'	113,38
BTUGSF	412	-	-	250 (-39.3)	-	061
BTUGSF	112.876	-	-	101-, 525, 101	-	112,99
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222	110,634,3 (5,11)	114,418,1 1 8,71	129 447 9 1 23.01	17.91	130,658
2 2					
752	466	.87	8019		515
	1,424	1,484	1,524	1,557	1,557
51					
Massach, Dhuatannan & Tathang 455	1.258	137	337	337	111
KSF Not Avelable	BASE	924	526	4.6	826
• •	527	635	569	679	679
Popular is Medical	373	395	340	113	£I£
1) C 7	01E-4	4,621	6.77.0	7,88.7	788,7
15.1	706	1,059	1,087	1,114	71111
	3,591	5.717	4,106	5, 94 <i>0</i>	S, 0,87.0
353	232	244	153	100	100
Operational But drugs 1771	167	58	58	99	44
KSF Nestable BASE			•		

1 ▼ FY 76 ECIP - Energy Conservation Alterations 591,269 - Completed June 1977
2 ▼ FY 77 Family Housing ECIP Improvements - \$224,978 - Completed (ext(mated) October 1978

193d Inf Bde, CZ

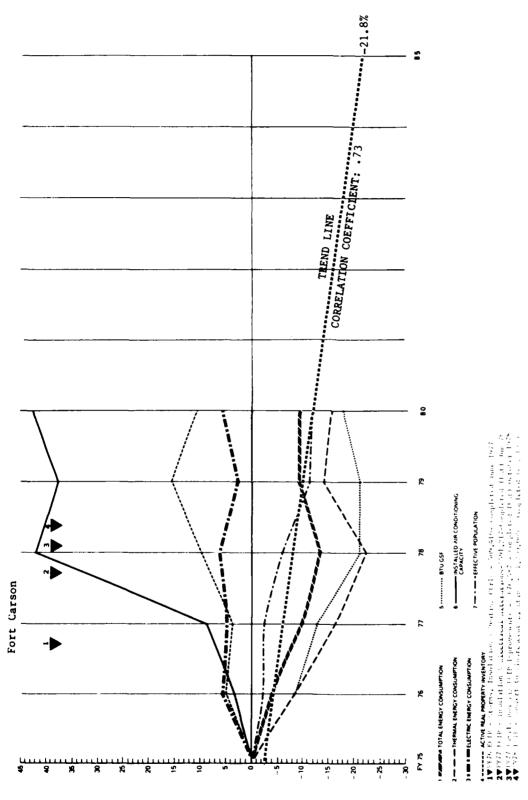
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US Amy ANALYSIS OF ENERGY CONSUMPTION INSTALLATION 1234 INF BDE, CZ

MACOM FORSCOM

	UNITSEY	£	£		777	_	¥		ŧ		2	
Energy Comumption & PD	MBTU	3 660 317		_	26.5 246	7 -	2 7.57 575	١.	2 1.40 410	-0	2.886.445	18.81
2 Themsel En Cons to PO	MBTU	2,027,011	0.00	•	150		5/1 16	~	86 100			16.4
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		7.50 /45.7		- i	077.07	\	7,300,400		7,3/4,320	}		1
A Manageria regougation of the	E C	17.550	16.5		14,795	-15.7	16,076	_	706.41	7		0.7
5 Non Readers Population & PD	#0#F	4.750	14		5,421	1.41	5,329	_	7,765	-3		1.84
8 Population Served** & PD	PEOPE.	22, 300	20		20,216	-6.3	21,405	_	22,669	1		1 21.9
7 Effective Population*** Is PO	100	19 133		_	16,602	-13.2	17,852	_	17,492	19:00	22,161	15.31
B En Consumpport/Pop Served fo PO	MBTUCAP	00 71	4	_	1.1	5.3	114.8	_	108,5	15.5-	106.2	1.5.1
9 En Communication Pap & PD	METUCAP	8 21.			148.5	11.0	137.7	_	140.7	5.2	130.2	1 -2.7
10 Electric En Consumption/Resident Population	MBTUCAP	140.6	6.041	_	160.5	14.2	147.2	_	159.3	13.31	0.861	-0.
11 Inggilled Ar Cond Capacity to PD	TONS	9 679	7 7 7	_	11 161	28.6	11.161	-	11.341	1 30.7	15.328	1 76.63
12 Elec Energy/Ton of An Cond & PD	METUTON	284.3	6.28.7	-18.1	212.8	-25.1	212.0	-25.4	7,007	-26.31	179.0	1-17.01
13 Real Poperty Inventory (RPI) & PD	25	16.156	16.077		16,121	1 -0.21	16,130	-	16,403	15.1	16,455	1.91
14 MTML Hective Population	KSFCAP	78	- 18	_	76.	15.5	06*	-	8	11.9	174	(-17.11
15 Energy CompanymentGSF is PO	BTUGSF	158.413	150.176		152,930	1 -3.5	152,360	-	150,010	14.5	175.414	1 10.7 1
14 Thermal En Consumption/GSF & PO	BTUGS	5.712	5.196	_	5,598	-2.0	5,652	-	5,249	-8.1	8689	1 52.11
17 Becercal for Consumption/GSF to PD	BTUCSF	152.701	144, 780	_	147,332	-3.5	146,708	٠,	144-761	-5.21	166	1. 9.21
18. NPT by Company	25		•									2 000 ₩
-	15±	461	478	-	459		458		459		433	
remerce & Pedecton	35.2	1 425	1.210		1.199		1.199	-	1,199		679	
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	¥St.	1.465	1.688	•	413		613		413		714	
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manuf & Montecol	35.2	157	157	!	174		577		174		603	
	35	850	853		751		759	_	35		643	
Charles House.	ž	3.272	3.282		3.229		3,224	•	3,222		2.397	
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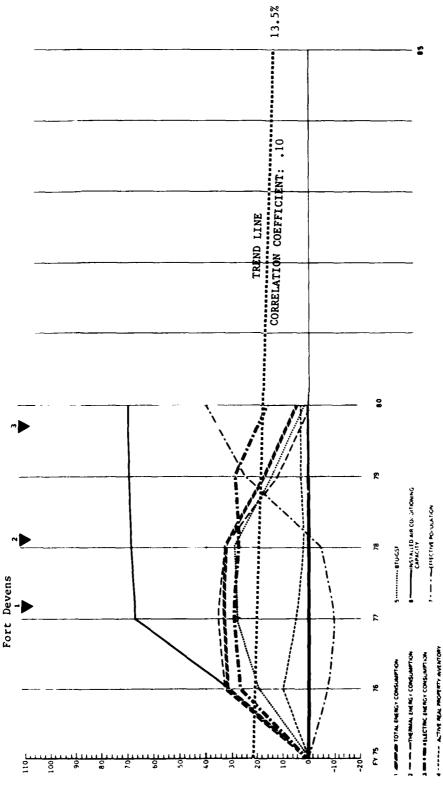
Ft. Amador, CZ in FY 1975



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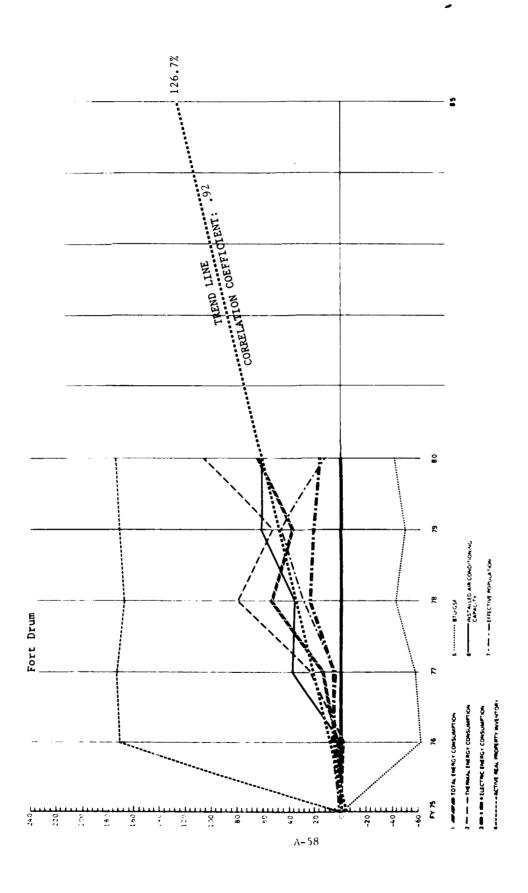
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9 En Consumption Ett Pup 6 PD	WBTUCAP	6 X	15.6 1 .35	100	16.71	7.7.7	10.6	5.55	8.71	3.95
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	8TU-GSF	251.327	229.953 1- 8.51	219,179	1-12,81	198.256	1-21.11	198,062	-	206.276 4-17.9
15 Energy Consumptions GSF to PD	\$5mile	173,115	151,769 1-12,51	140,242	1-19.11	122,918	1-29.11	128,739	1 -25,81	132.072
18 Thermal En Consumption/GSF to PD	BTUGSF	77, 911	75.183 (0.31	78.886	1.31	75.117	1000	69,321	1-11.01	74.20
17 Electrical En Comumptron/GSF & PO	RSF					XXXXX			NXXXX	
		633	501	2.1	-	73.7	-	860	2 2 2 2 2	
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Marrianence & Production	25.2				+			 - 		1
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	454	3.06%	3.791	3.049	-	3,144		3,105		811.8
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	KSF KSF	Not Avadeble BASE	62	ņg.		62		588		
		*PD is Percent Devetion from Bass Yas		**Population Served is the total Resident & Non Resident Population	MONTH PONGERO		A Readers +	*** Ely Pop as Resident + 1/3 Non-Resident		

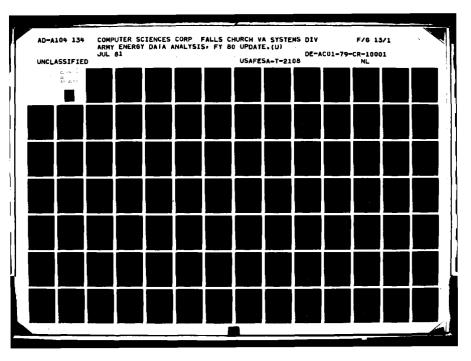
3 ♥ FP 37 Finally Housing ECIP Improvements ~ \$67h,587 - Completed (estimated) October 1978 ◆♥FP 78 ECIP - Convert to Flourescent Lighting ~ \$1,209,000 - Completed February 1980



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	N.S.	1 957	2.532	2.491	- 	1.955		1,954		1.964	
	88	1.815	2.157	1.548		1.979		1.942		1.893	
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1♥ FY 76 ECTP - Storms and Energy Conservation Alterations - \$232,742 Completed (estimated) November 1977
2♥ FY 77 Family Housing ECTP Improvements - \$615,550 - Completed (estimated) October 1978
3♥ FY 79 FCTP - Install Windows - Heat Recovery - \$445,000 - Completed May 1980

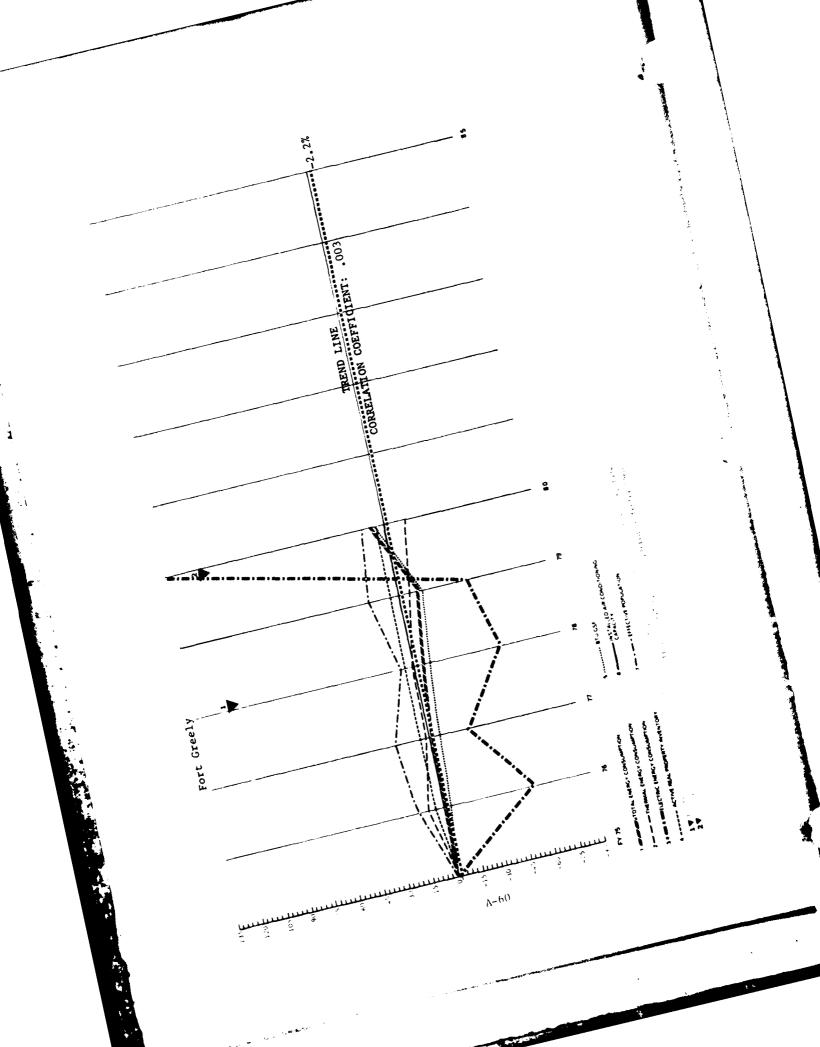




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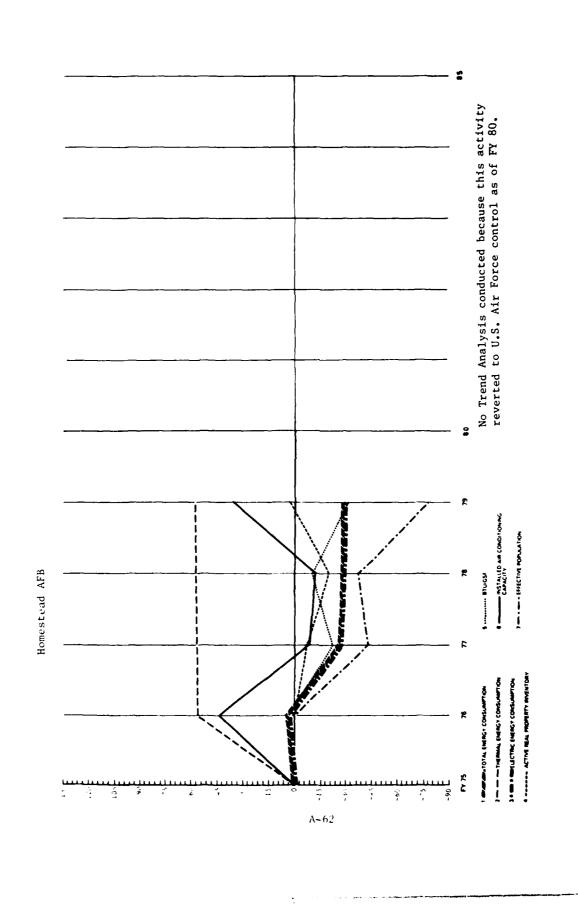
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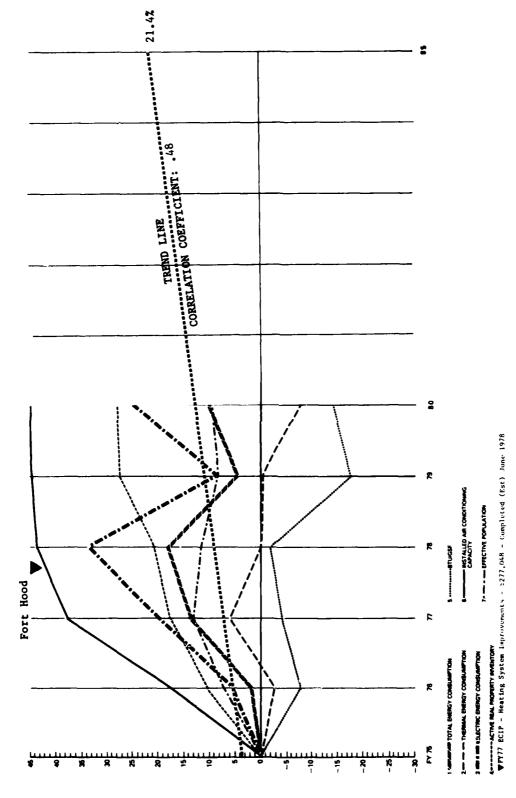


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1▼ FY 17 Family Housing ECIP Improvements = \$183,305 = Completed (estimated) October 1928 2▼ FY 17 FTIP = Insulation & Heating Controls = \$1,813,000 = Completed September 1980

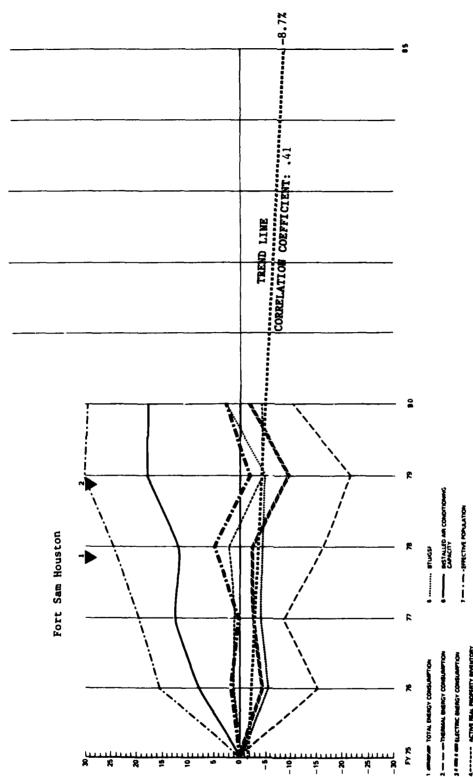


77	NO A STATE AND VOICE ENERGY CON	ALISMOD ASI	SCHMPTION - NSTALLATION Homestead AFB Florida	ustead AFB Florida	MACOM FORSCOM	CLIMATIC REGION HDD	184 CDO 4326
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Fig. Sec. A A A A A A A A A	Mad Property Inventory (NTS) & PO	KSECAP	1	1 20	11 6	71 - 80	.32 (357.11
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PY 77 ECIP - Heating System Improvements - \$277,048 - Completed (estimated) June 1978

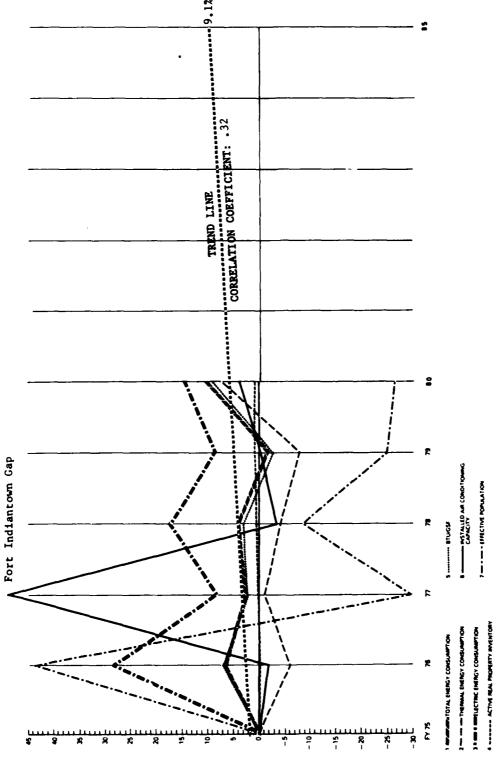


PF75 ECIP - Weatherproofing b Solar Film - S1,533,434 - Completed August 1978 FF75 ECIP - Insulation/Vantilation - "Pa,997 - Completed Sept 1979

1, 246, 262 1, 396, 283 1 - 4, 51 1, 978, 976 1 - 2, 91 1, 972, 675 1 - 2, 71 1, 978, 976 1 - 2, 71 1, 978, 976 1 - 2, 71 1, 945, 978 1 - 2, 13 1, 945, 978 1 - 2, 13 1, 945, 978 1 - 2, 13 1, 945, 978 1 - 2, 13 1, 945, 978 1 - 2, 13 1, 945, 978 1 - 2, 13 1, 945, 978 1 - 2, 13 1, 945, 978 1 - 2, 13 1, 945, 988 1 - 2, 13 1, 945 1		U.S. Army ANALYSIS OF ENERGY CONSUMPTION	PTION - INSTALLATION FT SAY HOLISTON	SAM HOUSTON TX.	MACOM FORSCOM	CLIMATIC REGION 6 HOD 1.570 CDD 2.994	1.570 CDD 2.994 2	
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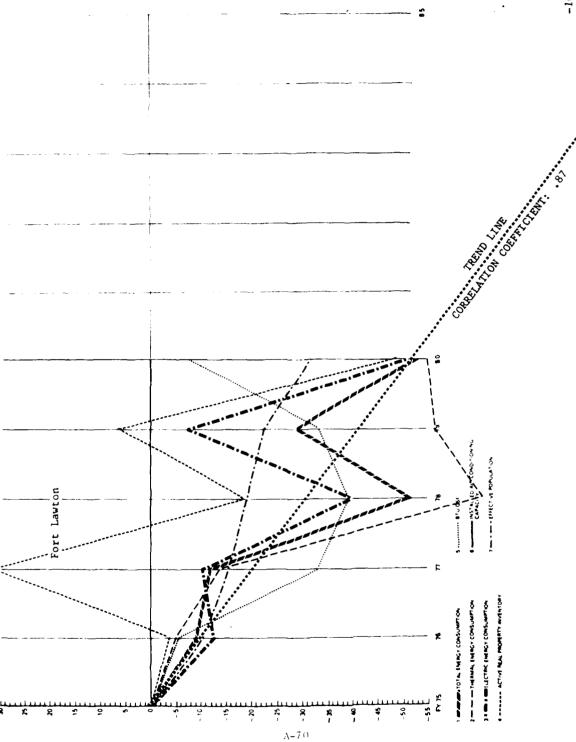
REMARKS



CLIMATIC REGION 2 HDD 5,609 CDD 945 MACOM TIME-COM US ALMY ANALYSIS OF ENFROY CONSUMPTION - INSTALLATION - 11.

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33	Share & Links						

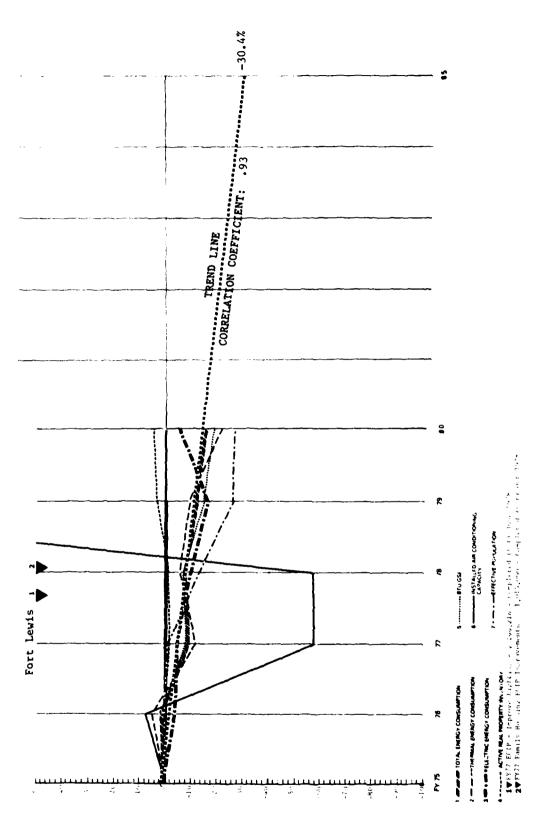
Includes Quikdale Support Center, Pa - No Oakdale Support Center Report for PY 16 so Data was Estimated Except for RPI by Category which Reflects Pt Indiantom Cap only



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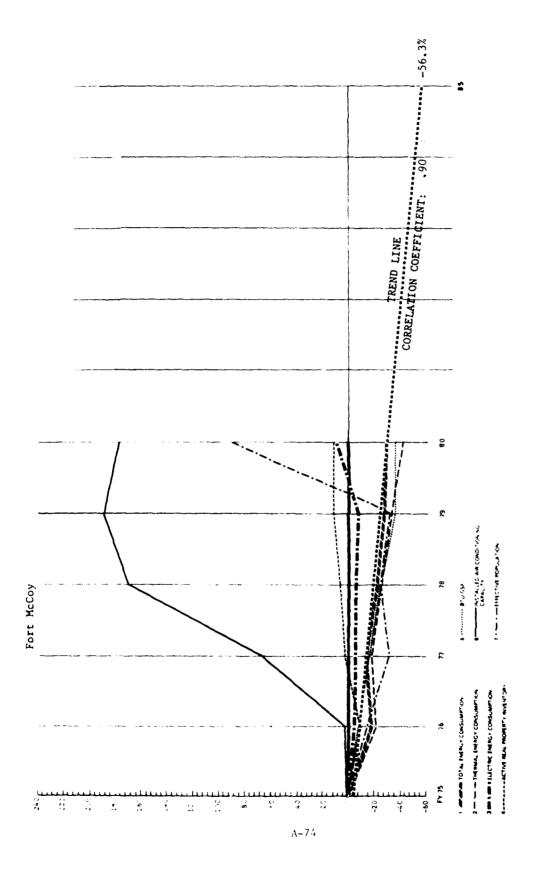


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17 Electrical En Consumption/GSF & PD	BTUCSF	84, 562	81.615 1- 1.51	L.	76,624 1- 9.41	64.309 1-19.21	17,416	Ĝ
18 NP by Category	25							Ø
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Mamenance is Production	#S#	1 241	1.540	1.53"	1,612	1,420	1.652	ĺ
Assestch, Development & Tassing	#St				,			ĺ
Storage	T.S.	2.538	2.532	70	74	97	62	ĺ
Other Covered Seprents	#S#	Not Available Separately included Above		2.420	2,561	2,487	2.510	١
Hospital Is Medical	251	1 5.9	82H	\$6\$	279	599	665	Ì
Administration	25	1.030	1.083	1,003	946	1,133	1,195	ĺ
Bechelor Houses	#5#	1 4.303	6.195	781.8	4,024	4,626	6.562	ĺ
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1▼FY 77 ECIP - Improve Lighting - Sich, JM - Completed (estimated) June 1978

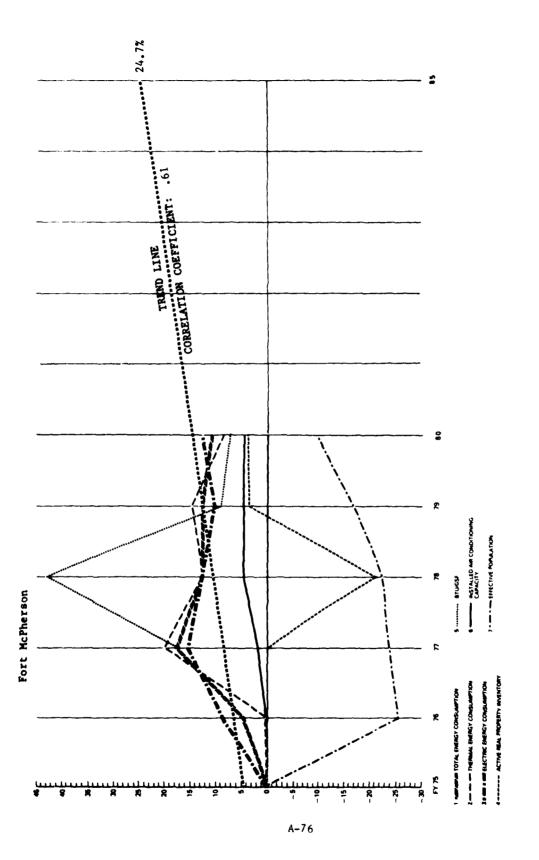
2▼FY 77 Fally Mousing ECIP Improvements - Si,015,000 - Completed (estimated) October 1978

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CLIMATIC REGION 1 HDD 7,558 CDD 578
MACOM TOPOGOM
器 起編品
- INSTALLATION
ANALYSIS OF ENERGY CONSUMPTION
US ALM

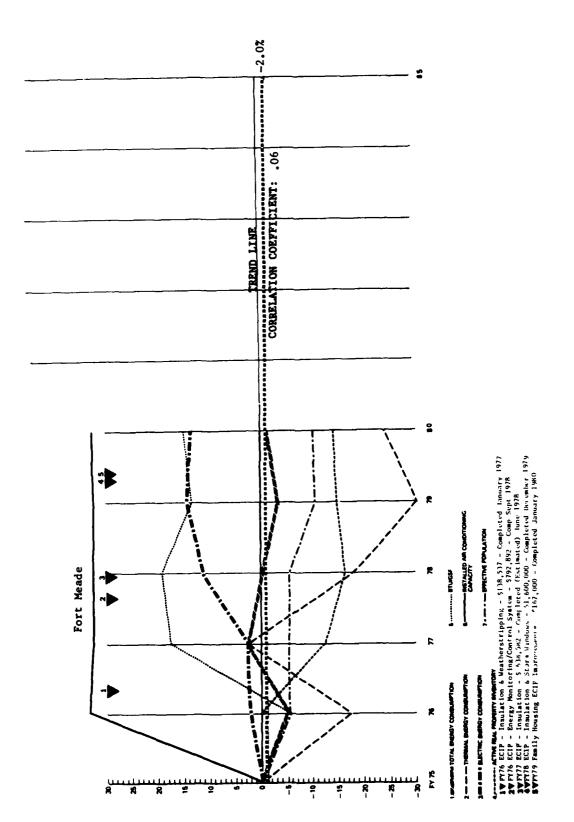
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thegr consumption is MU	MBTU	6.5 (7.9	9 7 [-]	1 2 2 1 1 1 2 2 2 2 2 2	ליול פעו	17.87-1 TAP 182	183, 309	2
2 Thurman En Corus to PTO	MBTC	504 417	6 22-1 154 82	_	368.105 (-27.01	179 177 1 -34.91	-	5
3 Electrical En Come to PO	Metu	168 113		150 243	-	-	18. 730	0
4 Resident Population Is PD	PEOPLE	5.573	2 326 -13 1]	1.689 (-34.4)	-	\$ 789	-
5 Non Newdens Population to PD	FORE	3 162	10.2 -1 - 2.0.	7 119 1- 2.0 1		[-	187 1	-
6 Population Salvad** tr PD	Monte	235	4 125 (-11.4)	1 1.53.1 11	=	-	9,65.6	1
7 Effective Population*** to PO	PROPLE	1,295	15,242 4-15,51	1 1 11 7 7 1 1	2,412 (-26,41	7,202 (-13.2)	6.281	ĕ
8 En Contumption/Pop Served & PO	MBTUCAP	142.0	130,6 1- 9.1	156.7 110.3 1	114.3 1- 4.1	132.4 1 - 6.81	5.99	-
9 En Lomeumptron,EH Pop Is PO	MBTUCAD	204.2	196.9 (- 1.6)	-	19.4 1 5.R.	719.7 1 7.41	6 47	4-
10 Eyers En Consumption/Readent Population	MBTUCAP	45.3	74.5 1 17.10	10,00 1 60,6 1	-,	144.6 1 54.K)	0 =	1.
11 Insuetted As Cond Catheriny & PD	TONS	0.2	274 1 2.21	10'29 1 15:	170.01	-	3.97	-
12 flac Engayiton of As Cond & PO	METUTON	622.7	575.4 1-7.61		214.4 1-65.21	198.4 -68.11	-	ç
13 Rest Property Inventory (RPI) & PD	181	7,147	6.416 t-10.73	7,412 (3,1)	7,669 (6.7)	R.035 (11.8)	× 000	: -
14 MPM Pactors Population	KSFCAP	2.19	2.31 1 5.71	3.33 157.5 1	1.14 1 45.71	3.65 (67.7)	10	
15 Energy Consumption/GSF & PD	BYUGSF	93,579	14.4 -1 176.28	14,947 1-17,R 1	68 570 1-26.7 ;	60,100 (-35.8)	60 168	1
16 Tharmas En Consumption/GSF fo PO	@TU-GSF	79.184	40,604 1-13,61	L	47,900 (-31.6)	40,868 1-41.Ru	707	-65
12 Electrical En Consumption/GSF for PD	GSG	23.395	74,755 1 5.81			11.11	23 074	1
18 APT DV CREATERY								
(-thursday	KS		1,119	1			1,68	
Memorance to Production	*5*	554	267	ארא	634	677	173	
Manager December to Tentos	15.	3		-			-	ļ
	151	637	878	146		19	٥	
Committee of the commit		Not Avelable Separately included Above	BASE	450	450	127	277	
in Marca	153	407	338	407	403	202	707	ĺ
	S	166	861	61.6	23.5	156	576	
	151	3.907	3,229	3,45,2	1,650	#01.5	021	
Comments for the	x3x	404	414	165	527	272	85,7	
	150	31	25	11	150	1	1	
	ž.	41	9.0	1.7	94	37	=	
	35.0	31	3.6		14	76		



4.5

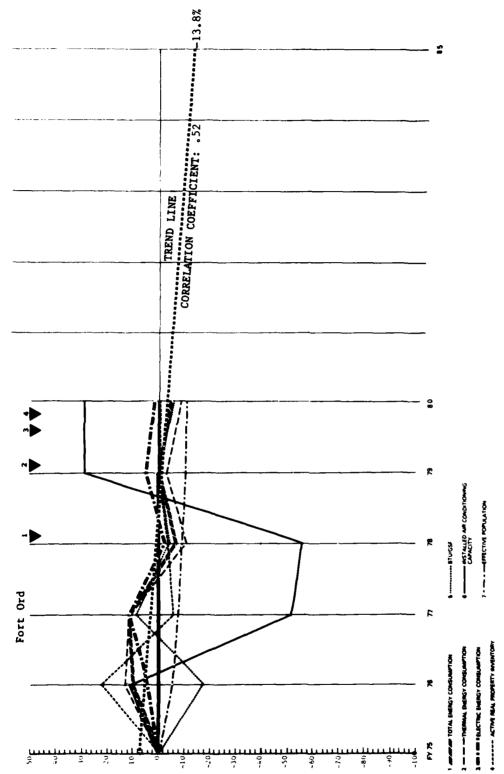
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V - MSTAL
ANALYSIS OF ENERGY CONSUMPTION
US Army

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	Vagrady	R	*	£	R	£	2	_
		681 923	713.750 1 4.71	PAG 299 17,43	764,670 1 12,43	15,259 1 12,21	754,042 4 10.	-
2	,	200 000	171 (88 1 0.21)	384, 432 (19,9)	360,315 4 12,41	367,325 4 16,61	346,650 1 8	1
TO SECUL SECURI SECUL SECURI SECUL SECURI SECUL	-	361 619	562	416,467 '15.2 '	405.335 (12.41)	397.934 ' 10.11		۲.
	2	000	917 (25.51	1, 971-7, 718	806 1.18.81	15 71-1 878	827 1-16.	٠
	2	7.633	17 11-1 150 7	5 494 (-26.11	5.650 1-24.01	16-71-1 601-9	6.922	6
2	2	R 429	{-		6.456 1-23.41	18,71-1 789.6	7,749 1 -8.	Ξ
	,	172 8]-		-	16,41-1-16,91	3,134 1-9.	7.
2.4	3	90.0	[-	0	2	110.0 + 36.0	97.3 1 20.	~
Or of Parties of the	METUCAN	7 461	- -	302.4 1 53.9 1	-	265,3 (35.3)	260,6 1 22	.51
R	3	164.7	419.0 (15.0)	509. R 1 39.9 1	17 88 1 17705	18,85 1 58,81	492.6 1 35	. 7.1
	5	3 927	1,995 1	4.044 1.71	1177 1 1577	1,5,4 1 151. 5	4,151 4 4	.41
	5	6 06	98 3 1 8 11	103.0 ' 13.3 '	17.7 1 6.76	15.5 1 9.29	98.1 1 8	.01
_		8.607	-	8,610 ' 0.0 '	6,769 (-21,41	8,886 1 3,21	8,883 1	7.1
	3	87 (3.25 (31.1)	2.52 1 1.51	3,081 24.35	2.83 (14.	Ċ
BURGET PARTY OF THE PARTY OF TH	3	79.229	82.888 1 4.61	93,020 117,41	113,262 1 42,91	86,120 1 8.71		-
04.4.50	3	17 218	17,300 1 0.21	44,650 (19,91		41,337 1 11.0		ŝ
	3	100 17	-	48.370 (15.24	60.029	44, 782 1 6.64	6 1 298'57	7
C. C. C.					$\overset{\times}{\otimes}$		∞	N
1531		67	- 66	49	69	70	62	٦
		751	751	751	157	878	841	
Appropriate Production			-			-		
Married Commence of Commence o		5.697	5.701	12		742	1.2	
-		Nex Augusto Separately included Above	3578	5,688	3,879	5,221	5,292	
Total Marie	Ī	185	285	185	146	154	797	
	ľ	888	588	588	209	603	\$19	
100	ľ	14.1	181	163	358	321	298	
	Ī	115	511	513	516	451	463	
TO THE PARTY NAMED IN COLUMN TWO IS NOT THE PART		335	315	135	335	332	322	
•	ľ	27	72	72	72	125	44	
SX SX		18	95	5.6	5.6	19	20	1
•		Hot Auglithia BASE					450	
1		sey seek most Develor from these Year	e a panes useryndou.	the york Resident & Nor Repotent Popula	* 1-54 Per 1-54 Per 1-54	4 1/2 Man-Passidant		ļ



Vagnes						!!				
	e		_	2		R		*		
2	2 165 653	1 931.432	1-5.61	4.271.407	5°.	4.149.468	17.0 -1	4,021,581	15.5-	Ų
22	1 624 605		1-17-71		- S	-	1.8.31	1.126.043	1-30.7	Ц
210	2 541 048	2 594 745	1 2.11	2,605,55B	1 2.51	2.821.638	11,01	2,895,538	1 14.01	Ц
#COME	22.025	18,901	1-14.21	106,81	16.21	17,436	1 - 20.81	1.1.1	1-21.11	L
#0#E	23.191	28,033	1 20.91	28,033	10,05 1	32,076	1 38,31	211,12	1 17.91	J
PEOPLE.	45.216	46.934	19.6	46,934	1.8	215'67	15.6		11.1 -1	٢
TO T	29,755	28,245	1.5 -1	28,245	J. 5. D	28,128	15.5 - 1	26,483	1-11.01	Ш
METUCA	92.1	83.6	11.6 - 1	0.16	1.3	R3.R	10.6 - 1	9.06	1 5 . 2 - 1	Ш
METUCAP	140.0	139.2	19'0 - 1	151.	c.« -	147.5	17.5	6.151	1 8.5 I	Ľ
MOTUCA	115.4	137.1	10.61	117.9	19.9	161.8	15.02	166.7	1 44.51	Ш
TOMS	6.971	9.288	1 33.21	9.228	32.4	9,228	1 32.41	9,228	1 32.41	Ц
MOTUTON	186.5	2,672	1-23.41	282.4	1 -22.9	305.8	1-16.11	317.8	1-13.91	Ш
35	12.645	12.645	- E	11,071	1 -12,4	10,555	1-16.51	10,755	1-14.91	
NSHCA6	-42	54.	1 5.31	.39	1.7	. 38	17.11-1	17.	1 - 4.41	Ц
erucs.	329,430.8	310,908.0	1 - 5.61	385,819.4	17.D	343,128.2	19.33	373,926.6	13.51	ш
BTUGSF	128.478.1	105,708,7	1, -17, 71	150,469.6	t 17. p	175,801.0	(1 - 2.1)	104,699.5	1-18.51	Ш
BTUCS	200.952.8	205.199.3		235,349.8	17.1	267,327,1	133,01	269,227,2	1 34.01	Ц
				****	***	******	***		$\stackrel{\otimes}{\otimes}$	Ø
HŞ.	4.37	437		382		543		700		Ц
25.	891	891		702		655		7460		Ц
KSt.	10	10		10		10		10		Ц
25	1.145	1.145		7.5		- 56		16		
1631	tos Austrabia Saparasaty Included Above	946	BASE	689		682		R23		
8	410	410		92		267		318		Ш
25	1.264	1.264		1,363		848		853		Ш
181	3,417	3,417		2.884		2,675		2,445		Ц
II.SF	176	977		885		859		1,168		Ш
KS.	3,732	3.732		3.593		3,731		3,700		
3	17.3	173		173		162		162		Ц
25	189	180		180		7.8		87		Ш
152	be Avelable BASE			1.9		19		77		
	YO to Percent Develops from Base Y		24		The state of the state of		The state of the s			

3♥ FY 76 ECIP - Energy Monitoring/Control System - \$792,892 - Completed September 1978
◆♥FY 78 ECIP - Insulation 6 Storm Windows - \$1,600,000 - Completed December 1979
\$♥FY 79 Family Housing ECIP Improvements - \$167,000 - Completed January 1980



1♥ ↑ ?? Family Housing ETP improvements = 1, sets, 40.4 = Completed (Est) (ett. 1975).
2♥ ↑ ? P ECD = Vestherstripping = 588, 00.4 = Completed Sovement 1977.
3♥ ↑ ?? ECD = Energy (control system = 7, 7.7, ECD = (Completed Duly 1980).
4♥ ↑ ?? ECD = (Pres. Wort.) Energy (control System = 5400,000 = Completed Syst. 1990).

115 Arms ANALYSIS OF ENERGY CONSUMPTI	ONSUME	TION - INSTALLATION	FT. ORD, CA.	}	MACOM FORSCOM	5	CLIMATIC REGION	4	нво ^{1,812} сво ³	۱,	~	
	-	-	-	_	-	-	_	-	- - -	_	- -	
3	UNITSIFY	R	2		r		R		R		æ	
DIBM	2	001 331 5	2 200 828	-0	2 R20 696		7 574 897	169-1	2.757.786	10.3	2,640,609	19.4
2	2	1 632 607	1 870 718 1	-,	1 776 912	1 - 1 -	1.467.689	1-10-1	1.571.939	1.3.71	1,489,529	-8.8
DEPT.	2	1 137, 183	1 101 101	7	1 043 582	- 11	1, 107, 203	1 - 2.41	1.185.847	20.7	1,151,060	1.51
	2	17 012	15 023		35.468	- a	007 70	1-12.61	23.879	1-14.5	23,098	-13
	2	363.7	-	- ,	7 255	110	919	1 67 1	9 184	15.04	10.953	9.79
2	2	037 70	-		1,7 7,1	- C	36.016	1 1 1 1	33.063	0.4 - 1	34,051	-1.2
•	2	101	78 378 1	-	27 886	7 7 7	27 605	1 8 3 1	26.940	1-10.5	26,749	1.1.
_	METUCA	200 3	7 78	-	6.48	1 2 3 1	×	11-5.71	83.4	8.~	77.5	7.6-
R	3	0 10	1 60	, 0,	5	1001	5	15.1	102.4	11.41	7.88	7.7
2	METUCAP	4 07	37 6 1	1,7	C-17	- 60	45.4	11.71	49.7	1 22.21	8.64	1 22.7
	2	1 103	1 127	-, -	503	1 7 05-1	531	1-55.51	1.530	1 28.2	1,529	1 28.2
_	METUTON	950 9	-	-22 61	1.761.9	185.41	2.085.	1 1119.31	175.1	1 -18,5	752.8	1-20.8
_		17.177	-	2.21	16,175	1 8.8 -1	16.518	18.1	17,113	17.0 - 1	17, 128	1 -0.3
	KSFCA	.57	147.	29.51	185	1.61		16.7 1 09	9.	64 (11.34	79.	11.3
	183	161.075	133.081 '-	-17.41	174,374	1 8.2 1	155,884	1- 3.21	161,152	0.0	154,169	٠. ۲
	BTUGS#	95.034	86.503 1-	10.6	100,856	1 15.61	88.854	1-6.51	91,857	1 - 3.3	86,965	٠. ٩
	33	170 99	46.528	17.62		1- 2.3)	67,030	1.51	69,295	16.7	67,205	1.8
Management of the Polyment	Г			$\overset{\circ}{\otimes}$		$\overset{*}{\otimes}$	***			****	******	****
•		1.204	1 262	-			1.206		1,217		1,215	
		756	733		822		897		457		686	
		43	£4.		20	-			80		- 51	
seatch. Development & Years		1.074	1.100	-	3		æ		æ		77	
2	Ī	Not Available Separately bycholed Above		33	993		666		166		8	
Was Covered Surnays		- 611	527		565		\$65		\$95		634	
Market & Market		887	4.866		830		888		006		857	
N. C.		5.218	066.9		4.936		5,078		4,972		6% 7	
_		1.458	1.471		1.422		1,487		1,490		1,443	
Age and the second seco		5.610	5.583		4.888		666 7		5,581		5.517	
181 182 183 183 183 183 183 183 183 183 183 183		268	251	-			217		224		259	
ľ			74		- 65		34		72		89	
TST TANKEN		Har Amplatha	73		112		911		26		19	
		"FD as Placent Developm Ingen Base Von	a Year Served is	Served to the	s total Resident & Non-A	1	H3	* "Ell free in floridarit +	4 10 Northwese			

Includes Ft Macarthur CA data from FY75 and FY76 when they were reported asparately. Ft Ord was transfered from TRADOC to FORSCOM as of FY76.

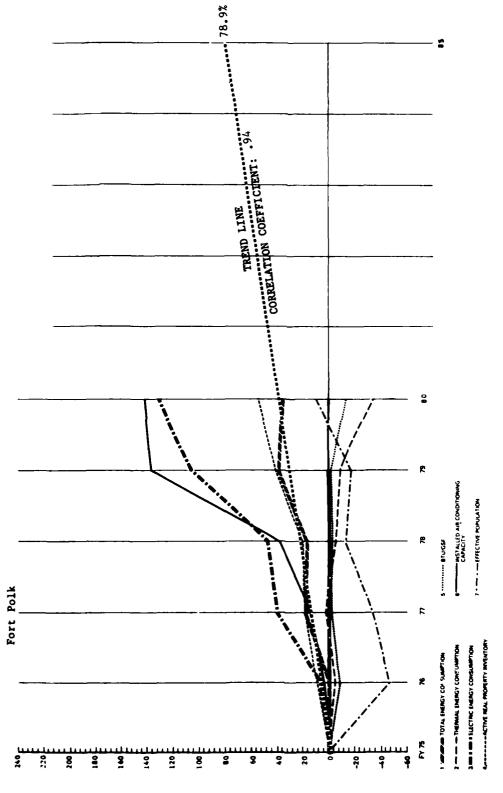
1 Ft 77 Pamily Housing ECIP improvements - \$1,046,907 - Completed (Est) Oct. 1978

2 Ft 79 ECIP - Meatherstripping - \$88,000 - Completed November 1979

3 Ft 79 ECIP - Meatherstripping - \$88,000 - Completed November 1979

4 Ft 79 ECIP - Energy Control System - \$2,621,000 - Completed July 1980

4 Ft 79 ECIP - (Fres. Mont.) Energy Control System - \$400,000 - Completed Sept. 1980

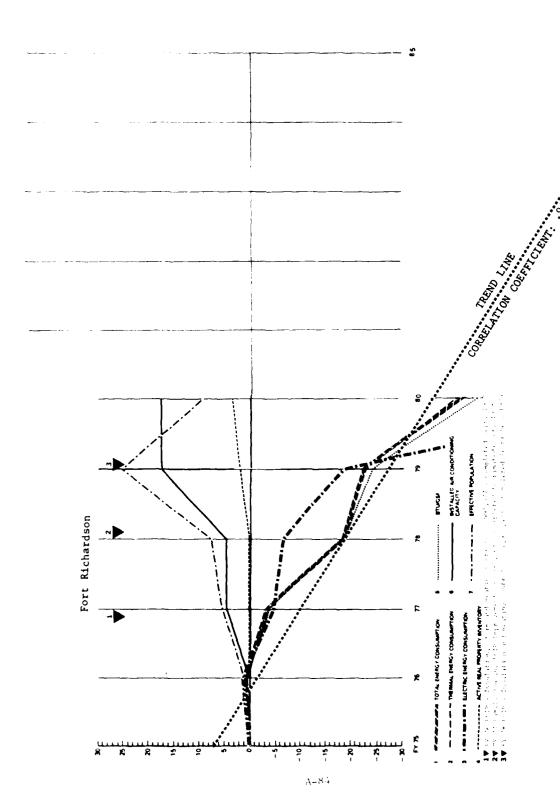


A-82

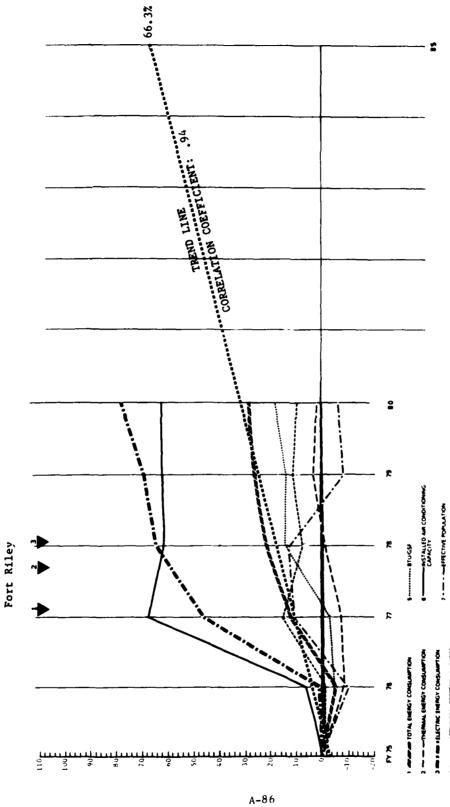
CLIMATIC REGION 6 HDD 1,889 CDD 2,666 U.S. Amy ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION.

Metry Metry Metry	78 1 367 892	Ŕ		_	2	•
UTBM	1.347.892				•	2
UL		1,368,102 1 0 1	1.604,639 (17.71)	-	1,888,177 ; +38 ; [1,841,236 1 34,6
	191 378	752,457 1 - 5,21	402,119 1,111	147,306 1- 5,81	717,508 1-10 1	512,850 €
	574. 514	615.645 17.21	ROZ.310 (39.7)	842,706 1 46,71	1,170,669 (+104)	1, 386, 851, 1
Judge	18 009	9.403 1-47.81	10,072 (-44,11)	12,649 (-29,81	14,239 (-20.91	14,958 1-16.9
Provi	7.407	5.092 1-31.23	10,772 (45,41	14,075 1 90,01	7,681 1 3.73	23,030 (210.9
	25.416	14,495 1-43,01	20,841 (-18,0)	26,724 1 5.11	11,920 (-13.8)	17,988 1 49.
HOME	20.478	11,100 1-45.81	13,663 (-33,31	17,341 (-15.3)	-	22,635 10.
_	53.8	14.24 1 75.41	14.9 143.01	19.5 1 10.51	-	6.6-1 6.85
METUCA	64.8	123.2 1 84.51	117.4 175.81	11.2.76 1 7.21	1-1	11.11
_	31.9	45.5 1105.21	19.7 1149.7 1	66.6 (108.0)	82.2 (157.7)	451.81 18.78.4
	8,482	10.5 1 5.01	9,699 (14.3)	11,782 1 18.91	19,911 1 135 1	20,434
MOTUTON	67.7	69,1 1 2,11	82.7 1 22.1 1	71.5 1 5.61	58.8 (-13.2)	64.0
_	8,551	9,288 1 8,61	10,071 117.81	10,788 (20.3)	12,037 1 40.81	13,204
KSYCAP	27'	19,001,48,	1741 76.51	. 59 1 42.11	121 11.6	85.
BTUGS#	696 651	147,298 1 - 7,91	1170 -1 211 651	154,550 1-3.41	-	139,445 1.12.8
	287, 56	81,014 1-12.71	14,111	12,639 1-21,71	-	38,841 1-58.
	67.187	66.284 1-31	79,466 1 18.61	81,911 (21.9)	97,256 1 44.81	100,605
17 Electrical En Consumption/GSP to PD RSF						
15.1	325	529	1,071	515	609	687
352	876	580*1	840	914	950	1,007
32		,		1	•	
seasch, Development & Teams	1.221	1,149	2.2	22	20	37
252	Not Available Separately Included Above	BASE	662	1,158	1,083	040 T
352	375	375	317	322	324	329
3	168	168	368	376	461	786
252	3.531	4.026	1,180	2,831	3,383	3,973
#S#	8.19	296	827	923	937	1,025
25.2	754	679	1,117	1,612	3,569	4.053
484	67.2	507	516	539	12	582
151		2	144	17	99	23
25.	Not Available BASE	-	2.985	1.039	625	6

Ft Polk was transfered from TRADOC to FORSCOM as of FY76.



				1			
	CHETSON	R	*	2	R	R	8
Energy Consumption is PO	22	1 960 160	1.969.977 1 0.51	1.899.419 1- 3,1 1	1,601,632 1-18,31	1,513,528 1-22,84	1,119,534 1 -42.9
2 Thermal Gr Core to PO	2	1 800 550	-	1 841 500 1- 3.1 1		-	-
3 Becomusi En Como to PO	2	60.610	61,352 1 1,21	57,919 1- 4.: 1		17'81- 1 827'67	- 1 521.11
4 Newdorn Providence & PO	100	8 805	8 908 1 1.21	10'6 1 667'6	9,812 (11.41	9,893 (12.4)	B 954 1
6 Non-Resident Population to FD	101	3.263	3.243 1 - 0.61	2,506 1-23,2 1	2,498 (-23,4)	€ 621 1 185° L	5.600
6 Payabaan Sanad'' & 70	NO.	12.068	12,151 1 0,71	12,005 1 0.3 1	12,310 1 2,01	10.22 1 44.01	14.5%
? Effective Papadataun**** & PO	100	9.893	9,949 1 1.01	10,434 1 5.51	10,645 1 7.61	-	10,821
& En Communication Served to PD	METUCA	162.4	162.1 (- 0.2)	158.2 1- 2.6 1	130.1 (-19.9)	1	76.9 1 -52.6
8 En Communication (Ell Page 16 PO	STOCK OF	198.1	197.2 1 - 0.51	182.0 1- 8.1 1	150.5 1-24.11	122.2 (-38.3)	103.5 1 -47.8
18 Sheare in Consumpton/Assets a Payetter	METUCA	6.9	(0.0 1 6.8	6.0 (-12.3)	5.8 1-16.41	5.0 1 -27.41	1.3 1-81.9
11 beautied As Cond Capacity is PO	1000	210	210 1	18'7 1 73	220 1 4.81	-	267 1 17.69
12 Blac Energy/Ten of Ap Cond ib PO	METUTOR	288.6	292.2 1 1.21	263.3 1- 8.8 1	256.6 (-11,1)	100.1 1 -30.7	45.2 4 -84.
13 Rad Paperty Investory 68% & FO	, and	7.600	7,600 (0)	7,616 1 0,21	7,616 1 0.21	156,7	7.855
14. MYSHippine Previous	20.53	11.	16.0 - 191	.731- 4.91	121 - 6.91	18'81-189'	- 1 (7)
14. Energy Consumption/GSF is PD	STUCS	257.916	259,208 1 0,51	249,39R (- 3.3)	210,298 1-18.51	1 692	162, 525 1 -4
14. Thermal for Companyages/GSF is 70	300	249.941	-	241,794 1- 3.31	202,885 (-18.8)	P-72- 1 268'881	141,104 (-43.
17 December for CompanymentGSF to PC	937E		I٦	7.604	7,413 1-7,11	377 (-20.0	
III. III'I by Campery	3	M		***	***************************************	-	***************************************
	136	26	26	26	26	28	28
Mantenance & Production	N.	700	700	700	700	670	738
seach, Operational & Toping	9		-				1
	100	1,330	1,330	102	102	9.8	9.1
No Count Samp		The Avelants Separately behaled Above	EASE .	1,228	1,228	1,236	1.347
Table 1 Market	2	17		33	33	35	77
	100	186	981	1 981	186	168	191
Charles House,		1.287	1.287	1,287	1,287	1,199	1.200
andy for Bea	2	582	582	582	582	557	386
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1VPRA ECTP - Lastiation, Storing a need also After - 5601,207 - comp how 1977 2VPRA ECTP - Lastiation, Storing objects See After 2, LTE, 564 - comp (1st) no 1978 3VPRA Ently Boasing CTP Improve weeks - 02, 955 - completed (1st) not 197

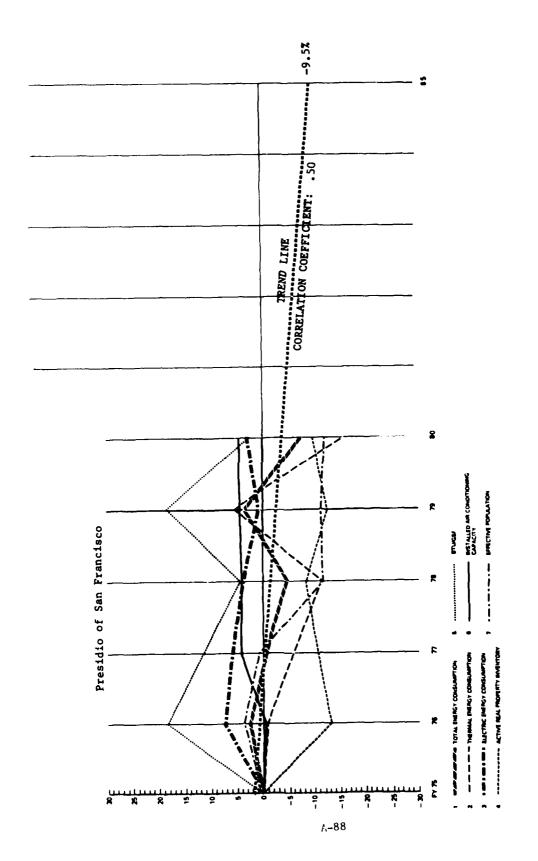
1	U.S. ALMY ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION	NSUMPTION - INSTALLATI	:	RILEY KG	MACOM FIRESCOP	CHIMATIC REGION TO THUS	100 T 000 TT 500	
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1 Fty 76 ECIP - Insulation, Storms and Mechanical System Alterations - 5669,207 - Completed November 1977

27 Fty 77 ECIP - Insulation, Storms and Mechanical System Alterations - 5569,207 - Completed November 1977

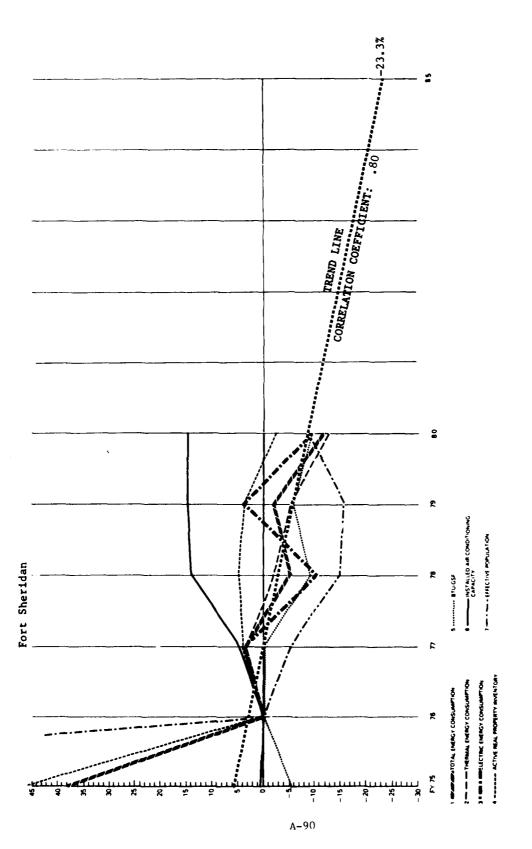
37 Fty 77 Family Housing ECIP Improvements - 5672,055 - Completed (estimated) June 1978

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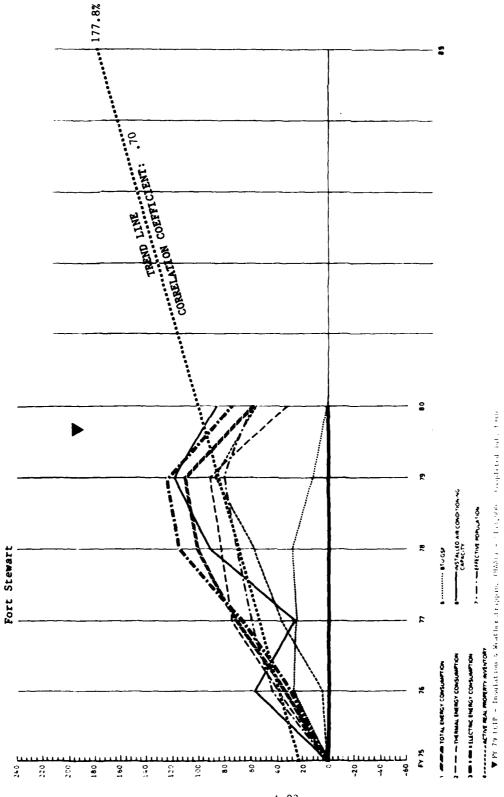
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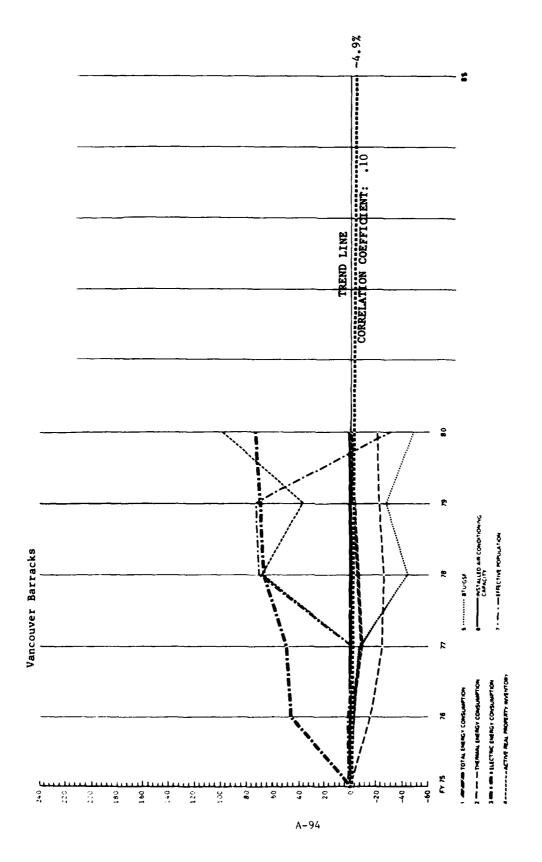
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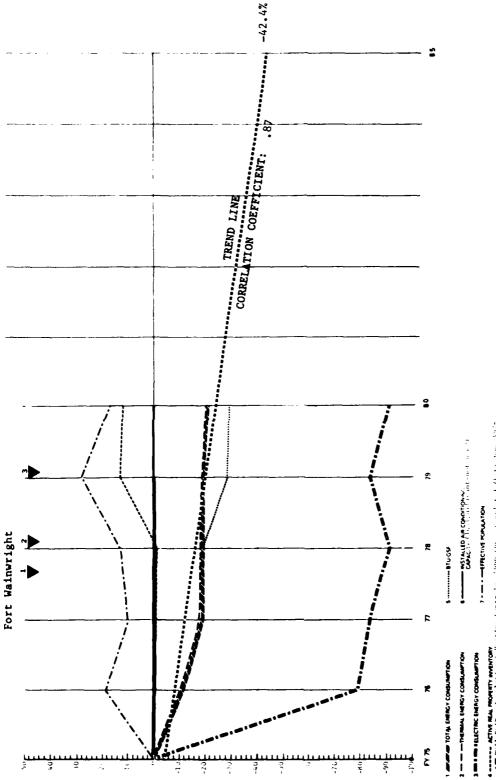


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159 Nat Aurille Squares Focksook Name 1257 234 214	TO CONSTRUCT B 100000	25	791	274	7.9	RO	79	33
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CLIMATIC REGION 1 HDD 5,792 CDD 100 US ALMY ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION VAYCHITER BARRACKS, TA

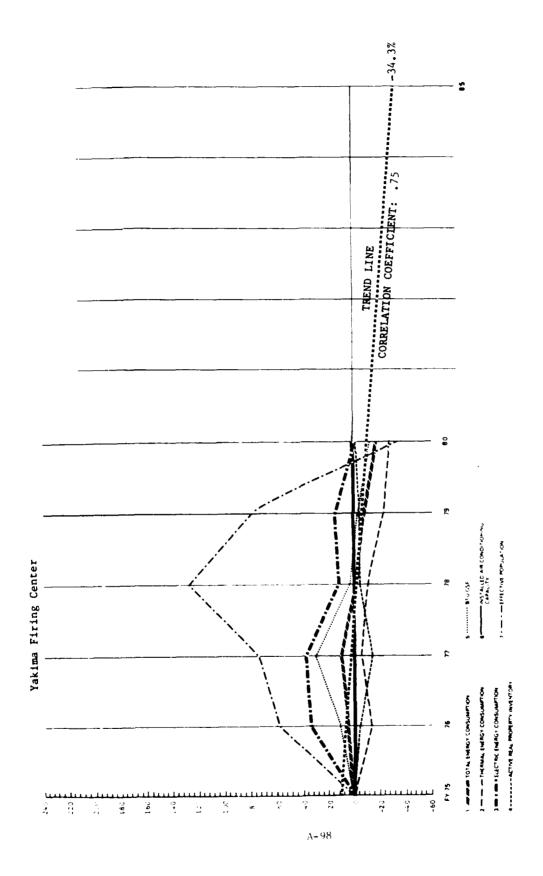
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1 V PY77 ELIP - Insulation & Heating Controls - 2000, 400 - 0 epictod (fate fune 1907) 2 FV77 ELIP - Insulation & Heating Controls - 51,581,591 - completed (fate fune 1903) 3 V PY78 EVIP - Insulation & Heating Controls - 52,475,730-0 eqilated (fate fune 1903)

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#ETUNGS#	1399.847	359,271 1-10.21		326,397 1-18.41	10.85-1 811,885	282,546 1-29.4
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252	126	135	135	135	572	245
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5	252	246	246	972	264	236
2	New Assettable	7	*	7	110	07

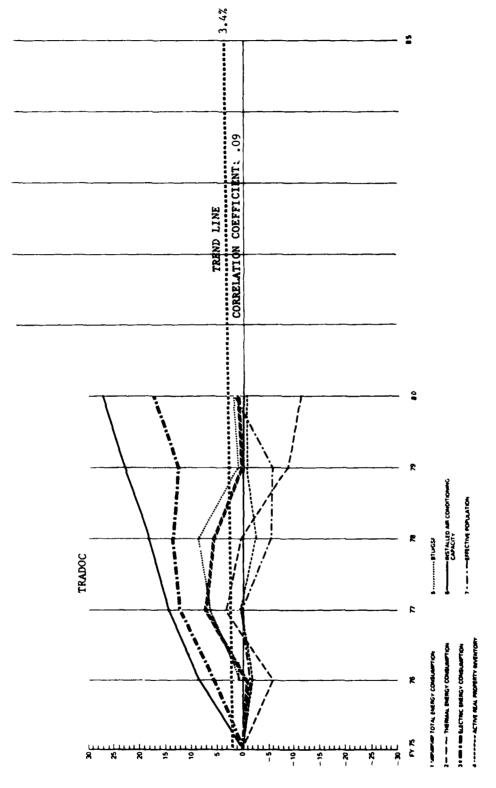
1♥ FY 77 ECTP - Insulation and Heating Controls - \$990,496 - Completed (estimated) June 1978
2♥ FY 77 Family Housing ECIP Improvements \$1,581,991 - Completed (estimated) October 1978
3♥ FY 78 ECIP - Insulation and Heating Controls - \$2,475,730 - Completed (estimated) December 1979



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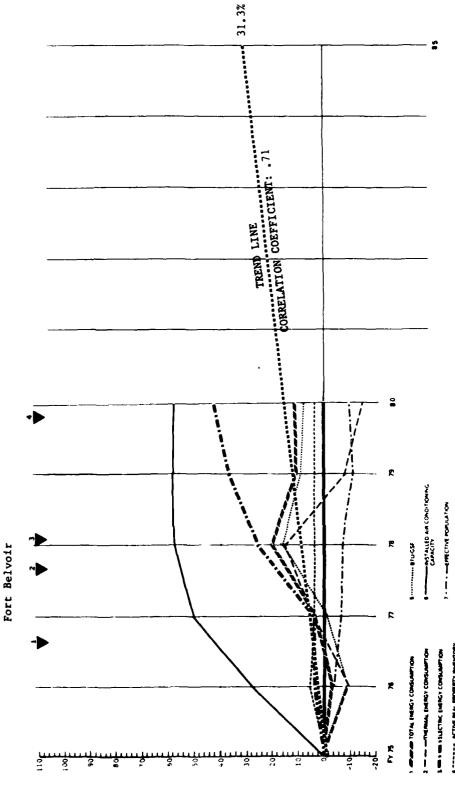


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S ALMY ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION

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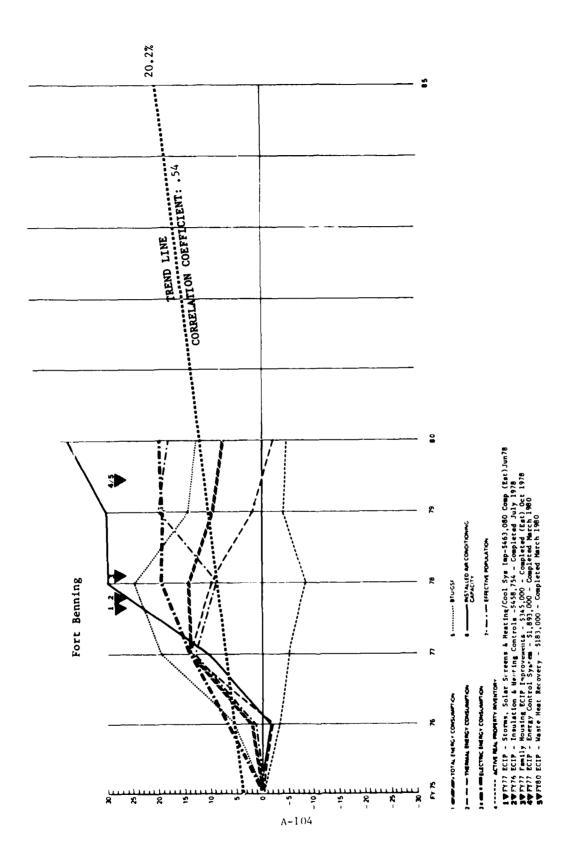
U.S. Army ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION	Y CONSUM	ᆸ	RELUCIR, VA	MACOM TRATOC	CLIMATIC REGION 2	HDD , 11, 1, 000	00 1,130		•
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	5.00	1 00% 213	1,036,559 (3,2)	1,042,372 (3.)	1 1,259,742 12	5.4 1 1,162,909	10.96 1 96.01	1,432,206	1 42.5 1
	ROPLE	71.01	9 743 1- 5-7 1	6.4 -1 518.9	Ŀ	8.7 I	14.1 1-13.51	9,000	1-12.9 1
	PEOPLE	7 477	7.851 1.5.01	4-1	91 6,872 1-1	R,1 1	1,505 1 0,41	7.659	1 2.4 1
2	PEOPLE	17.811	17.594 1-1.21	.5 - 1	Ĺ	7.3 1 16.448	148 1-7.71	16.659	1-6.51
	ROPLE	12.826		- P	41 11,937 1-	1 6.9 -	18.01-1 577	11,553	1 6.6-1
	METUCAF	125.4	122.7 1- 2.1 1	137.9 1 10.0	162.1	1 29.4 1	1202 1 9.051	148.5	1 18.4 1
2	WETUCAP	174.1	-	192.9 1 10,81	224.5	-	Ĺ	214.2	1 23,0 1
	METUCAP	97.2	106.4 1 9.4 1	10H,4 1 11.5	110.6 134.	4.11	12.4 (56.71	159,1	1 63.7 1
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	BTUGSF	265.203	242.886 1- 8.41	264,972 1-0.11	307,621	16.0 1 286,	753 (8.1)	285,268	19.6
	BTUGSF	145.861	126,301 1-13,4 1	145,735 (0,0)	163,039	1.8 1 129,	13.11-1 660	120,134	1-17.6 1
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	KSF	715	582	565	\$95		569	570	
	KSŁ	092	741	741	839		839	873	
Research, Ownerspirent & Tourns	153	946	524	18	19		19	81	
	KSF	Not Available Supermary Included Above	BASE	532	531		537	765	
•	RSF	324	368	333	314		320	298	
Propest & Medical	KSt.	588	617	678	578		577	265	
A	KSF	1.570	1.682	1.640	1,533	1,1	411	1,340	
	KSF	995	999	637	648		64.3	657	
ı	KSF	2.338	2.338	2,338	2,338	2.	2,330	2,328	
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^{§♥} FY 76 ECIP - Insulation and Storms - \$662,000 - Completed May 1977

2♥ FY 77 ECIP - Insulation and Meating/Cooling System Improvements - \$1,475,318 - Completed (estimated) June 1978

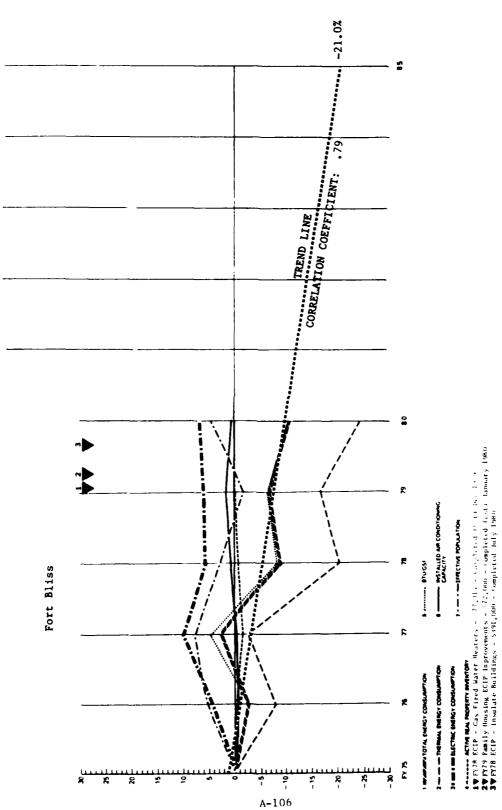
3♥ FY 77 Family Nousing ECIP Improvements - \$134,015 - Completed (estimated) October 1978

^{♦♥}FY 80 ECIP - Insulate Buildings - \$720,000 - Completed August 1980

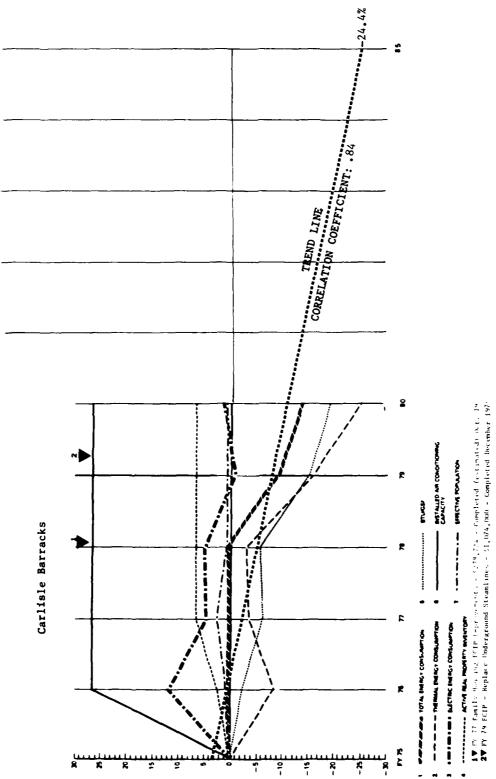


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Fig. 108, 809 100, 409 10, 419 10, 419 10, 419 110, 41	#110-GSF 100, 609 110, 400 110, 410 115, 110, 281 115, 110, 255 12, 0.0 115, 0.68 15, 81 111 115, 0.68 15, 81 111 115, 0.68 15, 81 111 115, 0.68 15, 81 111 115, 0.68 15, 1.00 11, 0.00	E HOCKING PUBLISHED	BTUCS	4	-		237,372	24	217,110	13,71	214,818	12.5
Fig. 10 Fig.	Strington Stri	AN COMPANDAMENT B NO	BTUGSF	108 809	110.490 1 1.51	-	_	20.01	115,068	18,81	111,686	1.2.6
645 Company Co	153 1,571 1,671 1,718 1,711 2,135 1,515	and to conduction of the	BTWGG	80 087	1101	-	106.817		102.041	1 24.31	103,132	1 25.6
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155 191 116 116 115 115 115 115 115 115 115 11	RSF No. American BASE OR 102 51 7.3 115 RSF No. American Devision from Base Year "Population Served is the relational Population Served is the relational Population ""Eff Page a featurer + 1/2 Non-Resident	amely Housing	252	300	260	250	237		227		717	
155 National BASE 166 51 73 115	155 Not Available Base 166 51 73 73 73 115 115 115 115 115 115 115 115 115 11	between the drage	351	84	80	102	161		116		116	
	"TO a Percent Devation from Base Yes "Population Served is the total Resident 6 Your Resident Propulation"	Maley Buddings	25	1	166	15	73		115		109	
	COLOR CHARGE TO THE PARTY OF TH	!				And the state of the state of			1/2 Man Bandhar			

2♥FY 76 ECIP - Insulation and Heating Controls \$458,784 - Completed July 1978
3♥FY 76 Emily Housing ECIP Improvements - \$345,000 - Completed (estimated) October 1978
4♥FY 77 ECIP - Energy Control System - \$1,893,000 - Completed March 1980
5♥FY 80 ECIP - Waste Heat Recovery - \$185,000 - Completed March 1980



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	URETSAN	ĸ	*		"	*		£		8	
1 Entrey, Consumption is PO	DABTO.	3 345 884	3.256.202 1- 2.	7 1 3.437.802	2,71	3,053,193	1 7 8 -1	3,116,158	16.9 -1	2.986.685	-10.
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3 Electrical En Core & PO	METU	881 (27 1	7	_	-	1.557.128	1 5.8 1	1.558.079	18.8	1,567,810	٠,٠
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٤	PEOPLE	14, 977	15.674 ' 4.	11.737	- 14.4.	18, 145	1 22.5 1	15,965	19.9	13,742	8-
•	MONE	\$5.5 91	38.512 (5.	31 40,10	15.01 1 6	30,547	- 8.1	16,715	17.0	36,906	0
R	EOPLE	26.590	-	5.5.1 78.585	17.51	27.317	1 2.7 1	24,072	16.1.31	27,745	7
8	MBTUCAP	\$ 10	84.6	=	10.7 -1 1.6	1.17	1-15.61	D. 7H	1-7.21	80.9	
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	TONS	\$1718	-	0,81	-	5,74.2	15.0	5,787	1.7.1	5,736	17.0
_	MBTUTON	257.6	-	0.81	1.01 1 0.4	271.2	16.8	2,69.2	15.4	273.3	9.1
_	KSF	17.182	-	0.2 1 16,916	1-1.51	17,048	1 y U -1	17,108	15.0 -1	17,158	1.0-1
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	BTUKESF	194, 732	189,877 (- 2.	2.51 203,228		760 671	1- R.O.1	182,146	15.9 -1	174,070	4 -10.A
	etucss	670.601	100,634 1-7.	017,710	0 1-1.21	1. ^	1-19.51	1,0,16	1-16.51	82,695	1 -24.2
	9TUKSF	85.682	89.242 1 4.	.2 1 95,517	12.51	91,338	1 6.6 1	6.073	1 6.11	91,375	. 9
	3										8
	25	1.751	1,767	1,758		1,729		769 1		1,670	
	KSE	1.298	1.309	1,144		1,346		1,360		1,355	
	3	92	146	147	-	971		150		871	
	23	1.401	1.397	۲		3,4		108		109	
1	33	Not Aveilable Separately Included Above		1.300		1,286		1,277		1,279	
•	N.S.	Į	2/2	903	-	860		867		778	
	KSF	987	98.2	7.94		450		1.099		1,033	
•	KSt	2.771	4 271	4.244	,	51.2.3		: '''		4,167	
	KSF	8911	1.155		1	1,17		1,142		1,267	
	KSK	178 7	[XX 7	74×.7	,	4 A P.C.		006 7		106 7	
	KSF	77.7	31.5	569	6	597		712		273	
}	3,		97	ſά	,	7.8		RO		64	
	KSF	Nor Avelebbe BASE		•		32		07		(1)	
	i	*PO as Percent Devemon from Beas Yes		**Population Served is the total Resident & No.	& Man Assessant Popul	H3 1000	*Ell Pap & Pampare .	+ 1/3 Nov-Research			

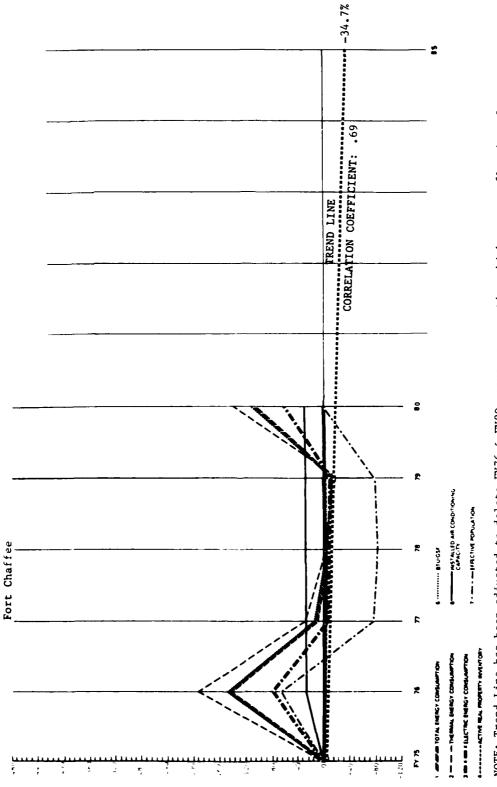


A-108

U.S. Army ANALYSIS OF ENERGY CONSUMPTION	CONSUME	PTION - INSTALLATION JARLISLE BARRACKS	LISIE BARRACKS PA	MACOM TRADOC	CLIMATIC REGION 3	- 100 - 1	565 cm 697 c	1	7	
	-	-	_	_	1 1 1	> _	1 1	1		
3	UNITSET	r	P		R	\vdash	R		0	
Former Community in P.O.	0.00	382 836	183 529 1 0 21	383,056	384,531	17.0		18 - 1	330,377	1.51-1
•	2	218 212		12	1	=======================================	184, 044	1-16.0	163,650	1-25,01
	U.S.	16, 610	-	-	173.038	2.1.5	163,207	6.0 - 1	166,727	1,31
•	7		-	-	1,537	0.1.0	1.537	1.0	1,561	1.7
	200			-	-	- 1-	1.483	2.11	1.428	-
:	į		-	0.00	1	-	000	-	080	-
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7 Effections Population**** is PO TEO	3	7.019	2.028 (0.4)	2,073 (2,7)	7	0.63	2,031	2	/50.5	5
8	METUCAP	128.1	129.0 1 0.71	126.0 1 - 1.64		19.0	115.0	(-10.3	110.5	1-13.7
15	METUCAP	189.6	189.1 (- 0.3)	184.8 1 - 2.9	189.3 (-	0.21	171.0	B.6 - I	162.2	1-14.5
	METUCAP	107.2	15 01 1 5 811	108.4	112.6	5.01	106.2	1 - 1.0	106.8	7.0-
	TOMS	1 36.7	1 707 1 26 71	1.707 1 26.7	1,707 126.	6.7 1	1.707	1 26.7	1,710	1 26.9
_	MOTUTOR	122.2	-	-	101.4	-17.11	95.6	1 -21.8	5.76	1-20.2
_		7,00	-	9 , 167 !	-	19.9	1.493	6.9	1,493	9.9 1
83	KSFICAP	69	70 1 2	72 1 3	74 1	0.9	47.	0.9	.73	1.5.1
	FLUCSF	273.454	267.081 (- 2.3)	256,568 1 - 6.29	257,556 1-	5.81	232,586	1 -14.9	221,284	1-19.1
	BTUGSF	155.869	138.883 (-10.4)	141.112 1 - 9.50	17.7	-	123,271	6 -50 3	109,612	1-29.7
24	250	117 585	ľ	115,455 (- 1.89	115,899			(- 7.0	111,672	1-5.0
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		117	247	211	211		211		211	
	*	599	645	929	929		929		9.29	
		20	20	12	1.2		12		12	
		3	3	112	12		12		12	
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8		and animal parameter of .	Year Section Section 5	the total founders & then founders from	A see Part 18	-	- A - A - A - A - A - A - A - A - A - A			

1♥FY 77 Family Mousing ECIP Improveme..ts - \$278,724 - Completed (estimated) October 1978 2♥FY 79 Replace Underground Steamlines - \$1,074,000 - Completed December 1979

A-109

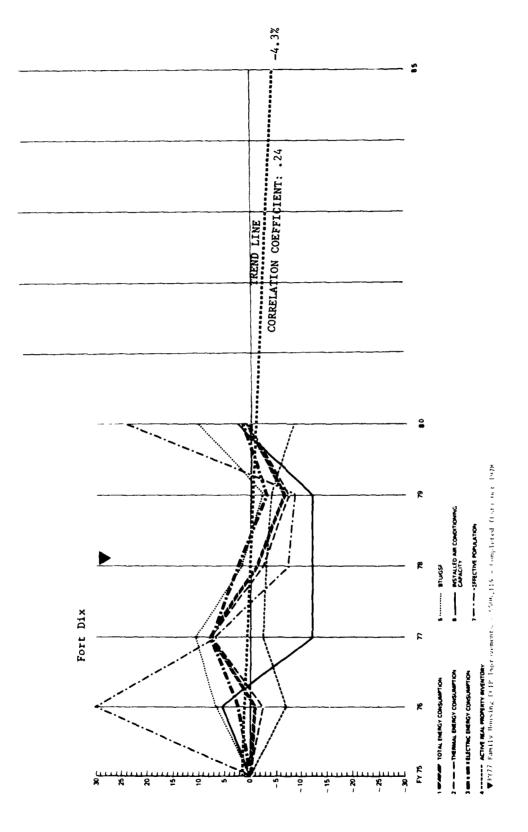


NOTE: Trend Line has been adjusted to delete FY76 & FY80 energy consumption which was a reflection of support to Southeast Asia refugees and Cuban refugees.

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CLIMATIC REGION
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INSTALLATIC
CONSUMPTION -
ANALYSIS OF ENERGY
US Army

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the Government of PO	METU	171.899	5.641 93.9	198, 384	14, 31 163, 354	10.8.01	145,574	1-15.31	351,312
	MBTU	33 70.	191, 191,	122,6au		1.3.33	80,066	1-19.7	1. 1004, 46.5
_	₩BTU			لِـ	7.5' 66.975	1 - 7.21	65.50H	1. 6.9.1	114,712
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	PEOPLE	5,621	-	- 1397	-71.19 1.158	1 - 79.41	1,116	1-76.61	6,018
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	MBTUCAP	9.03	2753 1 2773	121.1	295,44 141.1	11.1961	110.6	1261.71	7.85
<u>. </u>	MBTUCAP	12.9	5.82	17.7.1	176.6	10.36.01	115.9	1317.51	67.2 1
Pro-	MBTUCAP	1.5.5	15.7 4 0.51		415.0	1 475,81	1.69	1380.03	23.7 6 64.
-	fows	785	(1,41,1)	1,010	1.010	1 28.71	1,010	1 28.71	1,010
	MBTUTON	91.9	9.05 1 8.651	66,1	-28.11 66.3	16.75-1	64.R	1-29.51	113.6 4
	,,	798.2	1.0 - 1 1.68.4	- 59%,5	- 9.64 4,P76	1 - 0.41	918,4	1 5'0 -1	4,865
	KSECAP	76	m.04-1 A2.	1 96.5	153.81	19.[97]	35.7	1385.01	166.
10 Control of the Con	Brucsf	35,103	G. 241 1 145, 27	1 20, 187	5.10 33,501	14.4 - 1	29,855	(-14.9)	72,212 1 105.
_	BTUGSF	20,359	16.1011 012,08	3 454,65	10.9 19,766	16.5 - 1	16,420	1-19.31	48,613 , 138.
	eru-cs#	15, 743	26.700 191.1		6.9 13.735	1 - 6.81	13,434	1-8-91	23,579
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	4	Not Available Separately Included Above		303	398		398		308
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		911	911	125	125		13.8	-	125
454	<u>,</u>	2, 055	2,055	2,062	2,042		2,042		5,059
S	*	615	615	552	985		955		955
451	,	*	_		2				1
	3	33	3	335	337		137		129
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2		20,00							

A-111



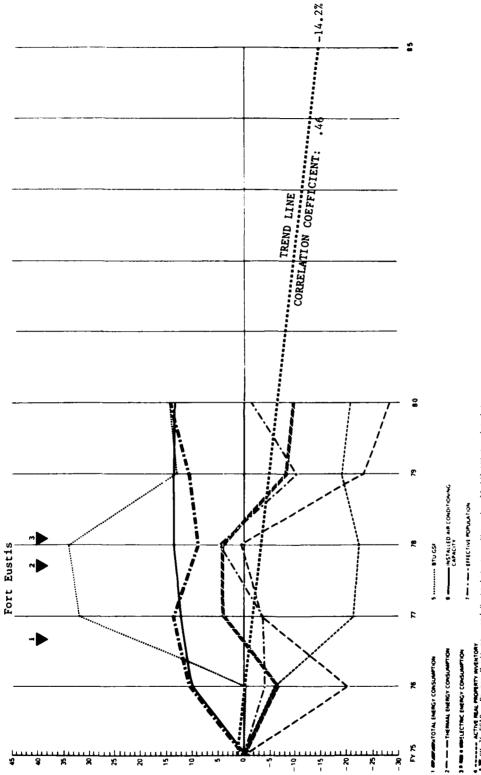
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HDD 5,119 CDD 883	
CLIMATIC REGION	
MACOM TRAPOC	
F ENERGY CONSUMPTION - INSTALLATION IT DIX 1.1	
TY ANALYSIS O	
US Arn	

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MONE	19.123	8.95 1 HIN. 25. R	61	0	Single Survey!	15,497
300	16,878	23,007 1 10,9	-	-	15 K 1 KA 1 1 5 1	20,927 1 (24
STUCKS	146,7	8, FC-1 7, 11.	-		139.8 1 - 4.71	120.5 6-17.
METUCAP	166,2	1.55.5 1-24.5	11,1 1 0,461	127.1 1 6.51	120.0	135.0 6-18.
10 family for Commence and Commence of the Com	53,4	7.55-1 5.13	17. 1.98	6.59	19.01 1 10.01	41.7 (-19.1
Ľ.	5.935	6,245	10.21-1 101.2	\$ 101		(1) 1 (80.9
MOTUTON	141,8	137,7 1- 2.0	11.25 1 7.771	16.91 1 18.7 1	-	140,0 1(-1,2
25.	11,920	11,095 1- 6.9	11,619 1- 2,41	11,577 1- 7.91	- 1 K5211	10,899 1 (-8.6)
KSICE	12.	6.8:-1 05.	11. 8 - 1 54.	16.2 3 26.	10.2 1 7/	
BTUGSF	235,358	249,951 1 6,2	11.11 1 10.34	1.6.1 1.71	1 320,056	259,746 1 (10.4
BTUGS	164.750	172,486 1 4.7	181,715 1 10.31	165,238 10,3	158,345 1-1.91	181,510 (10.2
STUCS	(77.485 (3.7	17 878 1 10.33	14 . 17	1 140	28.216
3					X	
157	566	700	107	687	638	883
25	111	303		797	817	917
2	-3		7	7	7	^
25	877	843	7,7	24	7.	7.7
2	ety Included	Abbut	R56	113	813	765
3	581	530	483	483	187	(44)
KSV	543	644	551	155	575	115
20.0	6.538	1.883	4, 095	4,064	2, DAR	3,643
KSF	176	97.1	1,273	1,273	1,2,1	976
25	1.1.1	2,771	2.832	3 799	501.2	3,836
2	218	218	265	297	264	797
D.		15/	97	43	47	. 6
25	No. Available	260	-	12	-	1

♥FY 77 Family Housing ECIP Improvements - 5506,114 - Completed (estimated) Actoher 1918

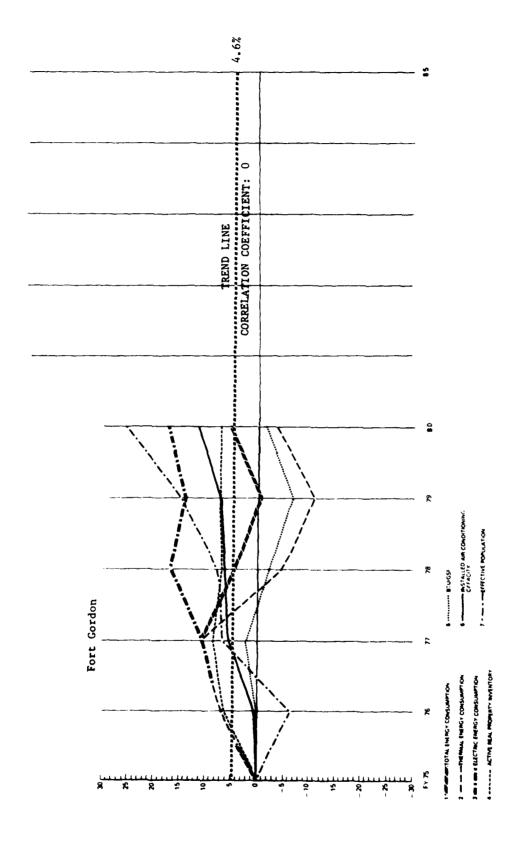


1 VEY 16 File Fibers Worldoring and Control System, Pages 1 · C2, bill order-completed in 2 VEY 17 FILE FEWS, White Fibers State Fibers Consolidation and Sterms - C3, 505 (Barton Sterms - C4, 505

U.S. Army ANALYSIS OF PREMENT CONSOMERION - MISINGENION	2000						
			-	>	>		1-1-1
	UNITSON	R	R	и	R	R	2
1	54870	200 H27 1	1 663 932 1 6 51	1.831.011 4.1	1.832.334 1 4.21	1.612.771 (- 8.3)	1,589,105
	STORY.	1	789,088 1-19,91	952.176 - 5.3.3	989,461 1 0.4 1	758.003 1 -23.01	705.800 ((-28.)
	5202		ľ	878.885 113.6 1	-	854,768 1 10.4	Ĺ
	PEOPLE.		-	11.445 (- 1.91	10.911 1-6.41	10.257 (-12.0)	-
	FORE	L	1.199 1-21.11	3.35117.3 1	R OR7 1 99.51	4,190 (3.4)	-
2	PEOPLE.		14.601 (- 7.1)	14.796 1- 5.8 1	-	14,447 (- 8.11	-
	MOPLE.		15 4.68	12.562 1- 3.5 1	13.607 1 4.61	11.654 1 -10.41	12,827 1 (-1,
	METUCA		112.6 1 0.61	123.8 1 10.6 1	96.4 1-13.81	111.6 1 - 0.31	96.6 ((-13.
?	METUCA		- 80	•	134.7 1-0.41	138.4 1 2.41	123.9 (-8.4
2	MOTUCA		75.0 1 13.01	16.8 1 15.7 1	77.2 (16.4)	83.3 1 25.61	80.2 I (20.R
	TORES	8	9.009 1 10.51	9.140 112,11	9,235 (13,31	9,235 (13,3)	9,235 (13.
	MOTUTOR		10.0 1 6.76	96.2 1 1.3 1	1676 -1 8.91	15.5 - 1 9.59	95.6 1 (0.
	20.0	8 012	7.524 1-6.11	6,324 (-21,31)	6.218 1-22.61	6,503 (-19.0)	6,359 1(-20.8
	KSFCAP	-62	.60 1 - 2.21	1 7 81-105	.46 (-26.0)	19.6 - 195.	.50 ((-19.
	BTUGS	218.998	1	289,534 (32,2)	294,682 1 34.61	13.21	249,899 (14.
_	BTUGSF	122,639	876 1-1	150,558 (22.7)	159,128 (29,81	116,562 / 5.0	110,992 1 (-9.5
Manager of PC	BTUGGS	96 159	-	138.976 1 44.21	135.554 1 40.71	ŀ	138,906 (44.
Car a Source	15						
THE REAL PROPERTY.	KS	1, 152	1 351	1.010	1.015	1,152	1,024
	I St	95.7	697	310	310	3:7	317
	20	75	75	52	52	35	. 55
The Charles of Table	K.St.	\$85	532		3	7	7
•	452	No Australia Separatory Inchesos Absent	PASE.	407	405	107	807
•	R.S.	121	113	151	151	151	151
and to Meeting	K.S.	767	369	125	44.7	987	\$15
	KS.	2 144	2.016	1.647	1.379	1.431	1.392
Shifter House of	20	859	602	677	519	562	212
į	KSF	2 019	1 291	1.793	1.801	1.813	1,796
	43	1 971	141	6.5	5.5	5.5	. 55
Destinated the deeps	KSF	05	3.6	53	50		0%
	130	Net Avelable BASE		11	31	30	30
,		V east man nathern Denger in Off	The set is broad complete.	de ten farefart & far franken fast at	+ mapping in the High	+ 1/3 Non-Passdon	

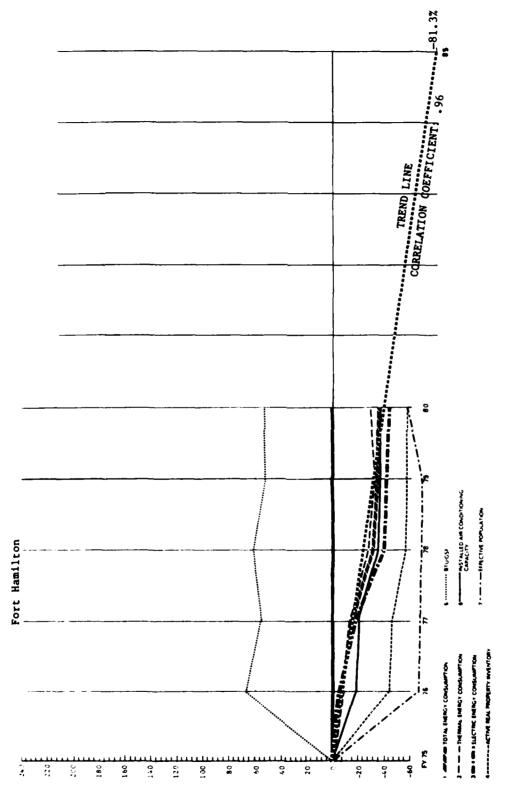
Includes Ft Story data which was reported separately in FY35 and FY36, but combined herein for consistency.

1 W FV 76 ECIF - Energy Monitoring and Control System, Phase 1 - 52,303,000 - Completed June 1977 2 W FV 77 ECIF - EMCS, Phase 2 - Insulation and Storms - 52,538,000 - Completed (estimated) June 1978 3 W FY 77 Family Housing ECIF Improvements - 5899,000 - Completed (estimated) October 1978



A-116

U.S. Army ANALYSIS OF ENE		HIT CONSUMPTION - INSTALLATION	FT GONDON, GA	MACOM IRADOC	CLIMATIC REGION 4 HDD 2.547 CDD 1.995	2.547 CDD 1.995	
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Carlo da Como da Carlo 22.0	1 117 522	707.501.1	1 237 435 110,7 1	1,303,142 (16,6)	1,268,652 (+14)	1,315,869	
Control of the Contro	#OF.	11.685	11.052 '- 5.4"	13,101 / 12,1 /	13,292 1 13,81	14,287 1 22.31	15.246
	#OFE	10.201	18.6 -1 059.6	9,493 111,31	15'11-1 52'6	111.6 - 1 011.6	8.832
Or In Property Population II To	HOPE	32.386	19.702 1-7.51	22.594 (0.91	17.1 1.71	23,997 1 7.21	25.078
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Inscired regulation is no	MOTUCAP	116.1	134.3 1 15.71	127.4 1 9.7 1	119.2 1 2.71	107.9 (-7.1)	109.
En Companyants Served & FU	MBTLVCAP	170.4	194,8 1 14,11	176.9 1 3.8 1	165.0 1- 3.21	147.7 1-13.31	143.
En Companyonen 10p B 10	MBTUCAP	95.6	104.2 - 13.1-	94.4 1.2 1	98.0 1 2.51	88.8 1 - 7.21	.18
EMERIE EN LONGAMENTANTEMENT POPULATION	TONS	19.334	19,434 1 0,51	26,459 1 5.81	17.9 1 6.41	20,696 1 7.01	21,581
Integrated As Land Laboraty B 70	2015	87.8	15.4 1 5.41	14.4 1 2.61	15.9 1 5.51	61.3 (6.0)	61.0
Elec Energy Ton of Air Land 6 PO	2	8.941	9,544 I 6,71	15.8 1 669.6	16'9 1 845'6	141.7 1 872.9	9,592
And Property Inventory Bart II P.O.	SEC.	95	67 1 14.11	1 2 1 109	118.0 -1 85.	18.9 - 19 /	50.
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harmal En Consumption/GSF to PD	2500	124.996	125,252 1 0,21	127,584 1 2,11	0.6	-	137,184
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Burnas I	KS.	381	385	ر25	391	392	392
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Name Ch. Development & Yearng	25	657	710	41		17	18
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toques to Medical	2	919	611	765	165	613	621
dimensional parties.	25	2 981	2.952	1,163	3,077	3,057	2,997
schelor House g	3	596	937	676	1,002	1,066	1,093
Community Fig. Steel	25.	1.285	1.279	1.270	1,270	1,271	1,275
Fords Houses	£5	287	2.1	672	236	226	219
pagent to dry	3	10	7.7	88	I 66	93	93
many Dankshap	187	Not Available BASE		15	15	16	18

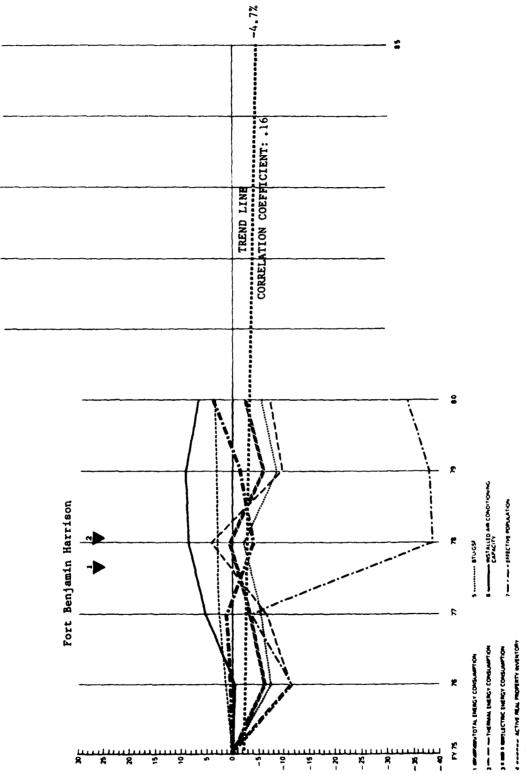


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TORES	2 946	2 400 '-18.5'	2,368 1,19,61	1,862 (-36,8)	1,862 1 -36.8	1,862
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KSHCAD	67	3	821 64.8 1	64 1 29.31	.641 29.3	L
BUNCS	119 986	200.000 1. 66.71	186,111 (55,1	193,469 1 61.21	180,909 1 50.8	187.279
BTUGSF	16, 791	126.829 (65.2)	120,972 ' 57,5 '	1.11.31		126,317
BTUCS	195	-	55, 139 1 51	43.31		26.167
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453	1.217		240	272	272	1
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151	2.097		1,76)	1,714	1,714	71.
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2	Mary Australia				75	

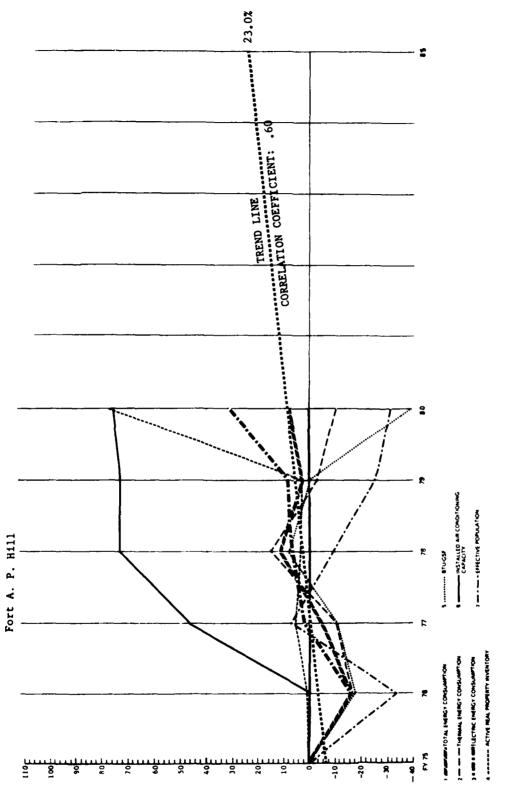
Reported as a PORSCOM installation in FV75. Transfered to TRADOC as a sub-installation of Ft Dix as of FV71 but is reported separately. As a result of the transfer, no teport was submitted for FV76 so the above data for FV76 is estimated for comparison purposes.



1 FF77 ECIP-Insulation & Electric Alterations-\$109,000-Completed (Estimated) June 1978 2 FF77 Fmmily Housing ECIP improvements-\$28,000-Completed (Estimated) Oct 1978

U.S. Army ANALYSIS OF ENERGY CONSUMA	CONSTRAG	PTION - INSTALLATION	FT. BENIAMIN HARRISON.	MACOM TRADOC	CLIMATIC REGION 2 HDD 5.577 CDD	\$ 577 CDO 974	
			IND.				1 1 1
	UMETERY	Ŕ	R	u	R	R	8
- Breeze Contamonto & P.	548 TU	1,273,276	1,195,006 (- 6,1)	1,232,094 ← 3.2 ;	1,277,063 (0.3	1,198,326 1 - 5.91	1,241,998
•	DEBTO	200 302	10, 11-1	653.010 - 6.8 1	727.926 (3.91	635,113 1 - 9.31	649.250 1 -7.3
	UTEN	472 974	1,10.1, 209 153	579.084 (1.1)		563,213 (- 1,7)	592,748 (3.5
	ROPLE	1 888	2 826 1-21 21	1 751 1 4.5 1	[1.1.22-1 207.2	3,090 (-13,9)	3,330 1 -7.2
	ROPLE	13.533	13 061 1.81	1 2 158 (-10.4)	11.52-1 602.9	5.806 1-57.21	6.097 (-55.1
	PEOPLE	131 71	(-,	15, 909 (- 7, 3 /	9.298 1-45.81	8.896 1 -48.21	9.427 1 -45.0
	ROPLE	8,112	7.180 1-11.51	7.804 1.3.8	-	-	5,362 (-33.9
	METUCA	74.7	75.2 1 1.41	7 - 7	-	134.7 (81.6)	131.7 1 77.6
	METUCA	156.0	166 4 1 6.01	157.9 (0.6.1	257.3 1 63.91	-	231.6 1 47.6
2	METUCAP	159.7	27	ر 4	- ا-	182.3 (14.1)	178.0 (11.5
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٠.	METUTOR	0 09	19 0 1 7 02		(9.11-) 6.19	63.2 1 - 9.71	68.1 1 -2.7
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	BTUGGF	265,376	246,038 1-7,31	250,375 1- 5.7 1	259,460 1- 2.21	-	250,504 1 -5.6
	erucar	145.957	127,940 (-12,3)	132,699 - 9.1 1	147,892 (1.3)	Ë	130,950 (-10.
Warrel In Consumption(CSF & PD	BTUGSF		8	117.676 1- 1.5 1	111,568 1- 6.61	-	119.554 (0.1
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		121	121	205	107		2.38
	KS	11	•		_		
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	100	1.502	1.524	1,504	1,507	1,507	1,451
	180	885	899	867	006	006	870
	KSF	378	434	375	403	424	459
The same of the sa	KSF.	1 584	578	597	578	578	578
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	KSF		32	18	34	35	34
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		eny easil ment resistant breases to Ort-	Year of a band family ".	So nest Section & Spr. Section Stock	THE PARTY OF THE PERSON A 10 Hours	1/2 Non-Resident	

1 ▼ F7 77 ECIP - Insulation and Electric Alterations - \$109,000 - Completed (estimated) June 1978 2 ▼ F7 77 Family Housing ECIP Improvements - \$28,000 - Completed (estimated) October 1978

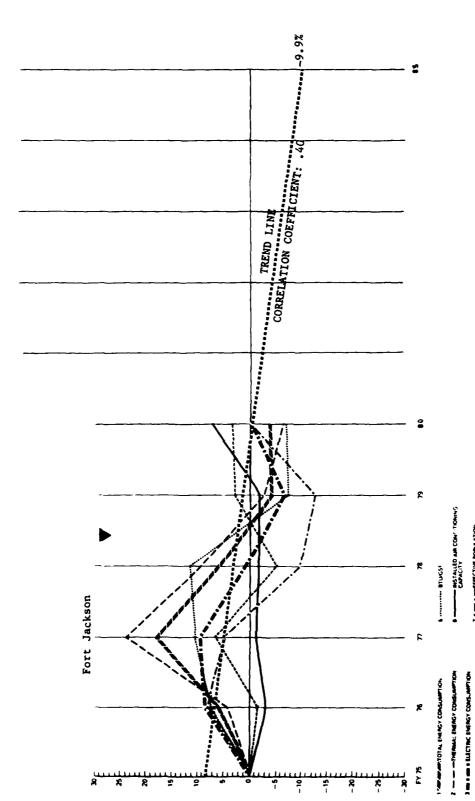


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Figure F	Meru An Meru A	£ ,44,-	R		P	F		I
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Signature 1,5	KSFCAP BTUGGS	8.8	.1 1-15.	5 1-30.	_	.0 (-37	4	1
Section Sect	BTUGSF 154	9		-	-	-	î	12
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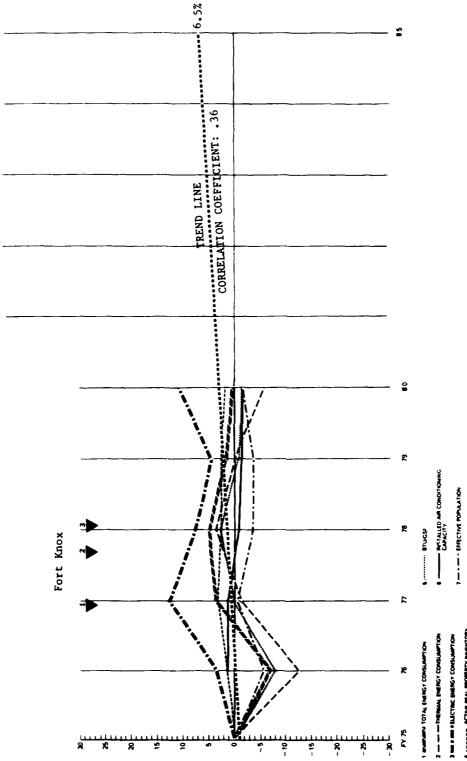


76 ECLP - Weatherproofing 6 Not Water Dist System Imp -51,060, 196 Comp (cb 1979

HDD 2, 598 CDD 2, DM7
7 HDD 2:
CLIMATIC REGION
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LYSIS OF ENERGY CONSUMPTION - MISTALLATION FT TACKSON, S.C.
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2.05	2 595 459	6.5 1 5.9 645 5	3,065,945	18.1	2,748,788	1 5.9 1	2,479,414	1-4.51	2 495 416
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2				1 6 7	1 099 515	1 6.0	1.016.559	1-6.71	1 086 491
TOTAL TOTAL	17 180	•		1 6,31	15,596	1-10,31	15,682	18.6 -1	18.168
10 M	8.571	8 768 (2,3)	R. 131	1- 2.81	8,009	1-6.61	5, 976	1-30.31	801.4
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ROPE	20.246	21,856 1 8.01	21.258	10.5	18,266	1 8.6 -1	17,674	1-12.71	20.204
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		125, R (- 1.91	144.2	12.51	150.5	17.41	140.3	17.6 1	123.5
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_	33.0	12,660 1- 3.2 1	12.957	16.0 -1	12,824	16.1-1	12,829	16.1-1	14.020
•	83.4	112.01	92.3	10.71	85.7	1 2.8 1	79.2	16.4 - 1	277.5
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RSICA		1 6.8 -1 77	55	1.71	75.	1 5.4 1	09.	17.71	15.
BYUCSE	250.020	269,203 1 7.7 1	276,53\$	19.01	278,555	111.41	232,372	1-1-1	232,521
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	And Andreas		000		1				í

♥FY 15 ECIP - Weatherproofing and Hot Water Oistribution System - \$1,060,196 - Completed February 1979



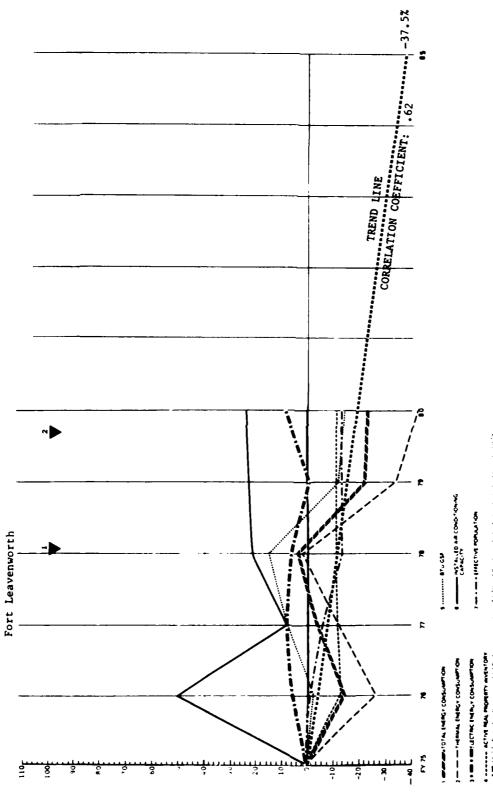
1 PFFS for Property Medical Ing Alteret Long S4'5,570 - Completed Supt 1977

2 PF77 FFTP - Insulation, Heating/Cooling Alteret - 5'3,774,408 - Comp (FSE) Insulation, 1978

3 PF77 Family Housing EffP Improvements - 54'5,600 - Completed (FSE) Inst 1978

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	1	way.	-	14 507 1 B 1 1		12.220 1 -15.3	057.71	0.51-
2		5.00	-	-	-	-	42.715	,
		770 77	<u> </u>	36 207 (- 0.7)	<u>-</u>	_	34.048	-1.2
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8. En Consemption/Pap Served B PU	MOTUCAS	2 811	-	1-	-	-	120.2	1.5
en Carameteranen van 9 ro	MATUCAP	5 67	-	-	16.6 1 7.45	52.8 1 6.59	54.1	9.6
10 Electric In Consumption Property	TORES	677 0	-	-	-	8,359 (- 1.3)	A 159	11-1
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S Every Commission of TO	BTACS.	131 126	-	19.4-1	132,367 1 0.81	128,278 (- 2,3	121.988	1-7-
III Themas to Consumption of TO	t	23.870	75 513 1 2.31	80.116 (8.5)	77,739	75,337 (2.0		9
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1 FY 76 ECIP - H	lear ing/Coo	iling Alterations \$465,3	1 W FY 76 ECIP - Heating/Cooling Alterations \$465,350 - Completed September 1977	r 1977				
of real - free section	new let for		Mearins/Cooling Algerations, Heating Plants Modifications - \$3,774,408 - Completed (estimated) June 1978	odifications - \$3,774,40	08 - Completed (estimate	d) June 1978		
ZVFY // ECLY = Insulation;	Tuente Louis		SCOT TANGED COLUMN TO THE PROPERTY OF THE PROP	24) Oceaher 1978				

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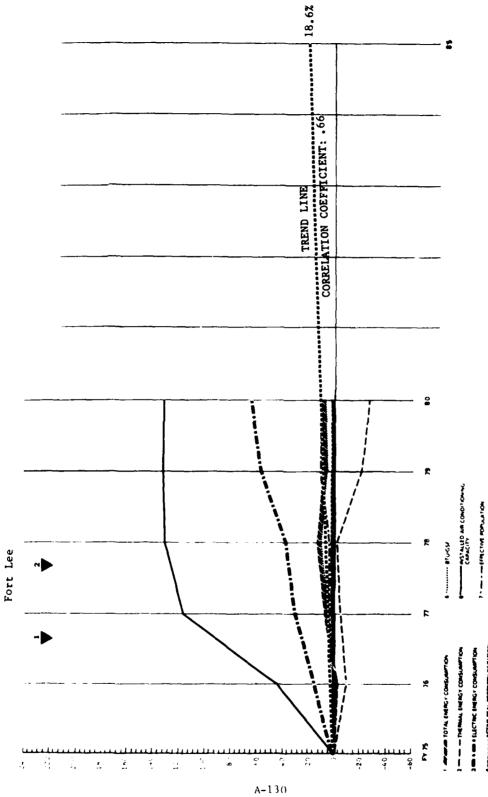
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Readon Population is PD	HOME	9 003	8.881 (- 1.3)	1 8 5 -1 585 8	7,775 1-13,61	7,748 (-13.9	7-742	-14.0
5 Non Resident Population to PO	TOPE .	2.954	3.075 ' 4.13	2,925 4- 1,01	2,823 1-4,41	2,825 1 - 4.41	2,783	2.5.8
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7 Effective Papulation*** & PD	100	9 987	(8.0 -) 806.6	0,459 1- 5,31	8,716 1-12.71	8,690 I -13.0	8.670	1-13.2
8 En Consumption/Pop Served & PD	Source	125.7	108.5 1-13.71	125.6 1 0,71	147.2 1 17.11	112.6 1 -10.41	109.6	1-12.8
9 En Consumeronê il Pop le PD	MBTUCAP	150.5	0	152.7 1 1.5 1	179.0 1 18.91	137.0 1 - 8.9	133.0	9-11-
10 Elector En Consumption/Relacion Population	MBTUCAP	65.1	70.1 ' 7.7'	74.9 (15.1)	80.3 1 23.21	15.3 (15.7)	81.8	1 25.7
11 Impatibility Card Capacay & PD	10MS	4.767	7.180 1 50.81	5.152 1 8.21	5,815 1 22.11	5,833 (22.5)	5.888	23.6
12 flac framewiller of Am Court & PO	METUTOR	123-1	86-7 (-29.5)	123.3 1 0.2 1	107.3 1-12.81	100.0 1 -18.7	107.6	1-12.6
13 Per Promity Professor (PC) (9-70)	*S*	7.756	-	6,912 1-10,91	6,962 (-10.2)	6.943 1 -10.5	6.921	1-10.8
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18 Thermat En Consensory GSF to PD	BTUGSF	118,181	18,696 1-16,51	117,008 (- 1.0)	134,449 (13.8)	13-92-1 (57.18	75.083	1-36.5
12 Shares of for Continuous (SE to Pt)	BTUGSF	15, 558.	91.10% 1.20.61	91,934 (21,7)	89,633 1 18,61	84,027 1 11.2	91.533	1 21.1
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The state of the s	3	179	141	147	144	143	143	
	KS	728	319	414	407	017	415	
	K\$t	808	75.1	665	727	734	200	
Page 1	252	67.3	657	753	7.55	753	761	
	#24	116.1	1.687	3,695	3.659	3,657	3.651	
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170 a Pecent Downson how Base Yes ... 'Topolation Served a fee interference for the Feet Service Housing ECIP Improvements - \$179,418 - Completed (estimated) October 1978

2 F F 79 ECIP - Storm Windows & Weatherstripping - \$404,000 - Completed July 1980

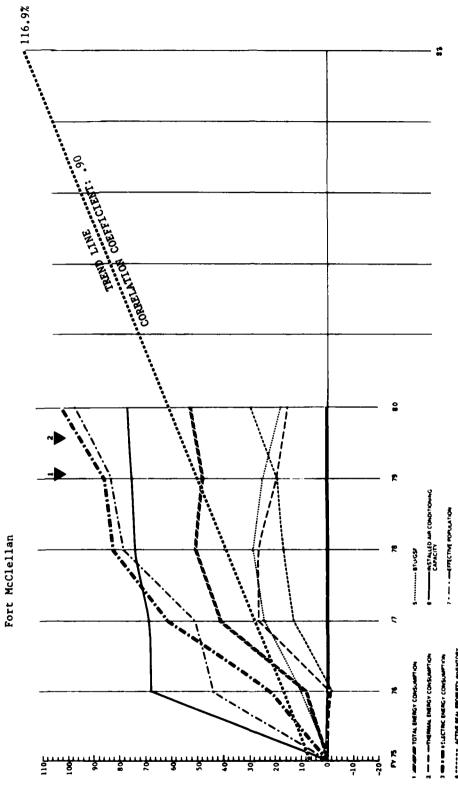
REMARKS



78 FETP - Ballding Harrovaents - Sal7, dat Campleted June 1927 27 FETP - Envisy Matterfaction from System - (1, 42), Paris - Campleted (153), June 1938

US AMAY ANALYSIS OF ENEMO	Y CONSOM	U.S. Army ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION ET. LEE. VA	EE, VA	MACON IRONS	CLIMATIC MEGICAL	l.	777	ť		
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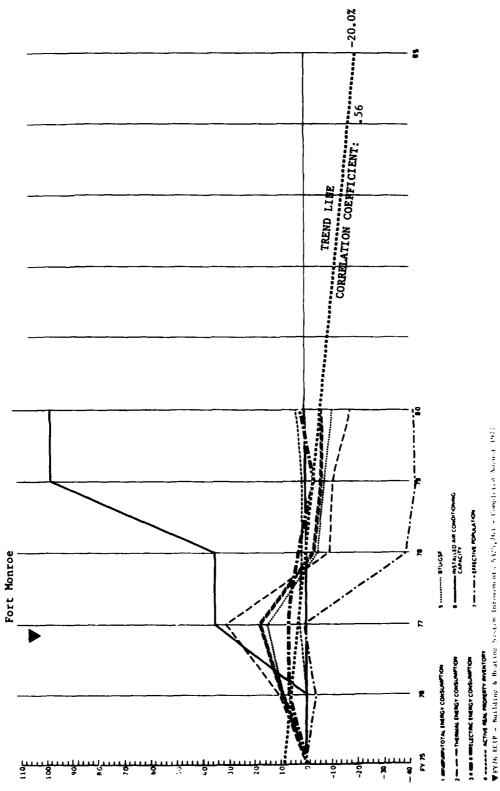
1 FY 76 ECIP - Building Improvements - \$917,000 - Completed June 1977 2 FY 77 ECIP - Energy Monitoring/Control System - \$1,342,800 - Completed (estimated) June 1978



7 76 ECIP - Heating & Gooling System/Improvements - 51,882,000 Completed October 1979 7 78 ECIP - Heating & Gooling System/Improvements - 51,873,000 Completed May 1980

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1 T 76 ECIP - Heating & Cooling System/Improvements - \$1,962,000 - Completed October 1979 2 T 78 ECIP - Heating & Cooling System/Improvements - \$1,871,000 - Completed May 1960

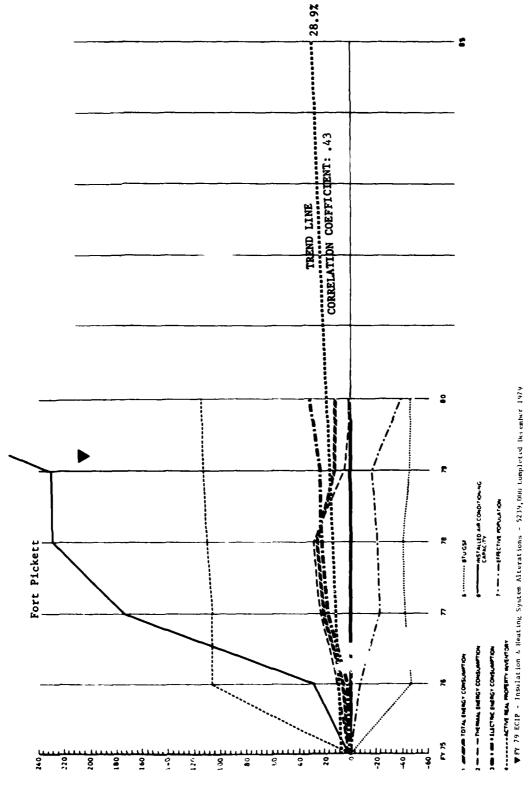


Sestem Impovements \$105,763 - Completed August 1973

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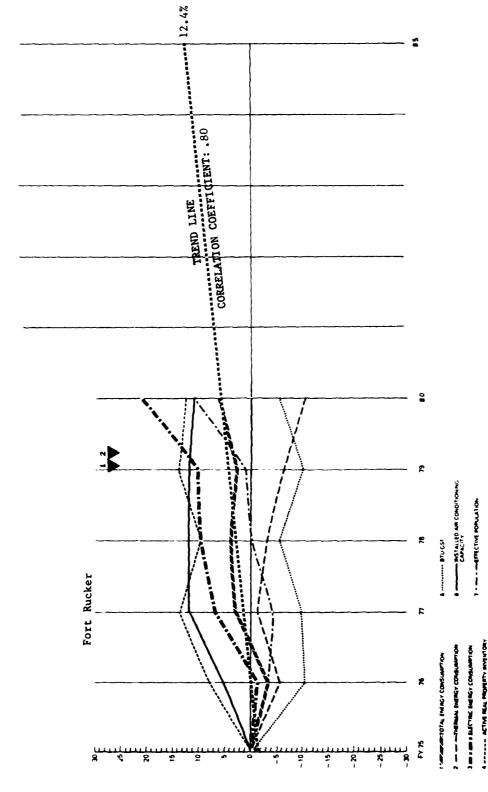
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Popularion Saved is the total Several Beaution from Base Year * The ECIP - Building & Heating System Improvements \$325,763 - Completed August 1977



U.S. Amy ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION	IGY CONSUM	APTION - INSTALLATION	FT. PICKETT, WA.	MACOM TPANOC	CLIMATIC REGION 4 HDD 3, 841	\$11.1 CD 128.1		
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Charge Consumption B 70	22,000	287 68		1000	119 76 1 17 81	18 7 , 891 86	92.100	-1.71
2 Income to Lord B PU	22	137.63	787	-	-	19.50 1 25.5	81.049	1 29.81
3 Recencial En Come to PO				35	٦	-	74.3	1, 2,
Assistant Aspestation to P.D.		7781	1		ľ	BU 00 1 3/1		
Non-Resident Pro-James In PO	2	604	١	1				
Charles County to By	HOM	2.231	2,398 (7,51)	2,098 1-6,01	2,121 (-4,9)	-	1.852	0.71-1
	3	1.825	1.684 1-7.71	1.392 (-23.7)	1,438 1-21.21	1,496 1 -18.0	1,112	1-39.11
CHECKING PROMISED. B 70	AMPLICAR	0 02	15.0 -1 1.81	90.0 1 28.6 1	92.5 1 32.21	17.6 1 10.9	93.5	13.61
En Commencements Served in 10	STATE AND	RS S	2 -	-	136.5 1 59.61	117.2 (37.0	155.7	1 82.01
Ľ	Sept.	2 81	12 26 1 8 77	ĺo	17.18 1 81.41	69.2 (79.8)	109.2	1183.7
Charter En Cornampourthunders Population	TOWS	88	-]-	289 (228)	289 1 2281	610	1 365.0
Imparities As Cores Connectly & PO	METHODE	1001	561.8 (-20.8)	106.91-56.71	- 6	-	197.7	1-72.1
Blec Emergerfforn of An Cored to PO	25	1 101	-	2 859 (105.2.1	ı	-	2.971	0.113.31
That Property broadery April & FO	ESPECE	9/	70	2.05(169.1)	2.04 (167.71)	1.981 159.71	2.67	1 250.01
14 PMCHazino Pandalan	erucse	112.085	58,434 1.47.91	66,060 1-41,11	66,813 1-40.41	59,123 1 47.3	58,280	1-48.0
	STUCS	67.251	36.229 1 -46.11	40,297 1-40.11	17.66 1 -39.41	11,109 1 -50.8	31,000	1-53.9
ł	BTUCSF	44 8 34	22 205 1 -50.51	25.763	26,057 1 -41.9	26,014 1 -42.0	27,280	1-39.2
17 Because in Company of the Po	100							
The Contract of the Contract o	KSF		188	188	233	255	255	
	181	227	308	308	312	314	314	
Members & Authors	K.St		,	-				
Parallect, Donneyment & Testing	18	398	087	37	36	36	36	
ì	#8¥	Not Available Separately Included Above		443	177	677	450	
Other County Street	20.0	7	22	22	22	22	22	
Person to Market	181	91	69	Uģ		63	63	
A	18	373	1.402	1.402	1,401	1,402	1,405	
Partie Hanny	2	151	301	1υξ	301	301	303	
Community for these	#34	15	16	16	91	16	16	
fort items	ā		51	51	53	5.2	67	
Opposite of the drops	*		33	31	55	55	95	
Cally Bashy	3	And Australia	1				2	
į								

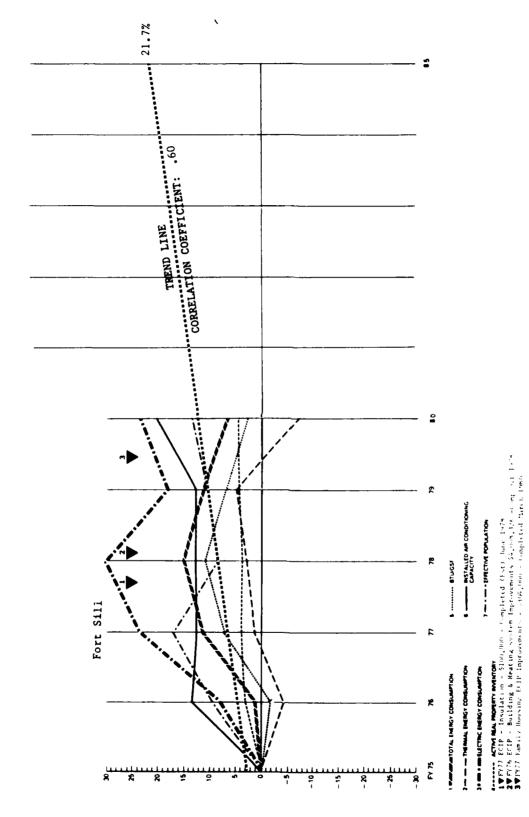
▼FY 79 ECIP - Insulation & Heating System Alterations - \$239,000 - Completed December 1979



1 V F7 76 ECIP - Insulate Buildings - 5112,000 - Completed Oxfore 1979
2 V F7 78 ECIP - Energy Control System - 51,231,000 - Completed December 1979

	CONSOM	NO					:	
			1 - 1 - 1 - 1	1 - 1 - 1	1	1 -1 -1	,	1
_5	UNITSON	R	R	r	R	R	ŝ	
•	22	1 942.689	1.876.505 '- 3.4'	1.996,469 (2.8)	2,010,497 1 3,51	1,988,947 1 + 2.41	2.063,768	6.2
ON THE PROPERTY OF THE PARTY OF	Ment	913.064	863.193 1- 5.51	898,412 € 1.6 1	884,619 (- 3,11)	855,248 1 - 6.31	816,200	-10.6
	518	1 039 675	1 01 11 2 1-1.61	1 098 057 1 6.6 1	}	1.133.699 (+10.0	1, 247, 568	1 21.2
	3	11 369	10.845 (= 4.5.1	-	11 384 ' 0.11		12,709	= -
	3	0 679	0 757 1 1.31	1 6 1 7 877 6	9.527 (-1.1)	1 - 2	10.232	[] -
R	3	30 998	20 SaR 1 1 91	20.257 1-3.51	20.911 1- 0.41	20.979 (- 0.1)	22.941	-
	Š	14, 579	14.006.1	13.958 - 4.31	14.560 1-0.11	692	16.120	2
	METUCA		11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	98.6 1 6.5 1	96.1 1 3.91	94.8	90.06	-2
e	MUCA	133.3	113.1 1-0.11	143.0 1 7.3 1	138.1 (3.6)	135,4 (1,6)	128.0	- -
5	TUCA	9 06	93.4 (3.21	101.6 112.2 1	98.9 (9.21	98,2 1 8.41	98.2	8
	TONS	11.4%	14.110 4 5.23	15.052 1 22.0 1	15.052 1 12.01	15,044 1 12.00	14,879	10.
با	METLITON	76.6		72.9 1- 4.8 1	74.8 1- 2.41	15.4 1 - 1.71	83.8	7.6
Ε.	,	7,203	1,273 1 7,91	8.202 13.91	7,870 1 9,31	8,205 (13.94	8,101	72.5
2	ISSECA	67	55 (11.6)	. 59 (18.9)	1-3	.591 13.00	56.3	-
	200	269.706	241 413 1-10.51	14	255,463 1- 5,31	242,407 (-10.1)	254,755	- -
	enves	126.762	111.050 1-12.41	109,536 1-13,61	112,404 1-11,31	235 1 -17.8	100,752	1-20.5
	Γ	14.2 .044		133 876	143.059	138 172 (- 3.3)	154.002	-
Or a Spreadon	Г						*******	X
16 Mari by Canadary		208		763	711	781	856	
	,	912	692	838	853		098	
į		. 53	5.1	56	56	51	51	
National, Development & Testing (1997		4.12	508	14	14	71	71	
		Not Audiate Seprendy Included Above	35VO	563	559	636	720	
Other County Straigs	,	265	1 51/2	377	345	311	335	
EX.		283	319	388	399	374	\$85	
Administration		1,722	2.163	2 188	1,959	2.088	1,497	
100 mm	,	539	650	674	655	999	812	
Commenty for Street		2.080	2 026	2.074	2.075	2.086	2,076	
Family Venture		105	108	149	120	215	163	
Character of the days				5.6	59	61	79	
Cally Balling		New Associates BASE		62	65	74	- 79	
		A world and extension because in City	the state of the s	And being the party of the last of the las	A Marian of Allers	10 Manhaman		

SWEW 78 FCFF - Ingulate Buildings - \$112,000 - Completed October 1979



A-140

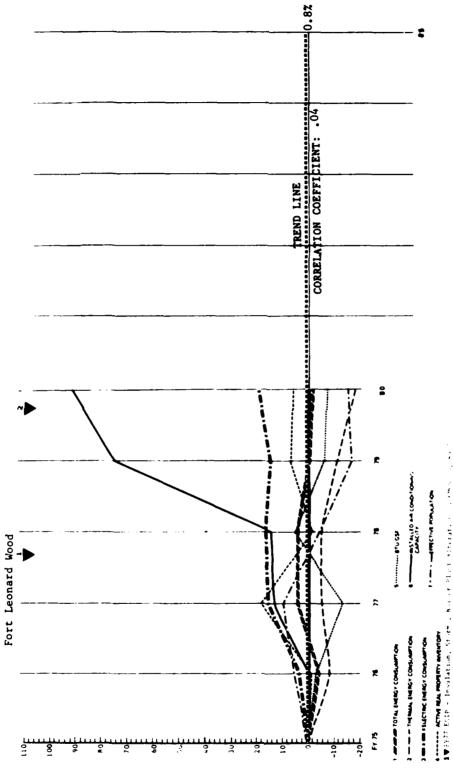
VANTS/FV	r	Ŕ	2	*	ŗ	8
0,000	2, 611, 504	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2,902,547 (11.1)	1,001,100		2,785,160
2.5	1,436,324	17.5 -1 588, 571	1,51,274	1,470,686 1,2,41		1,333,350
2100	1.175.176	1.247.275 1 7.81	1 5.15 1 175.121	2 - 21:	1, 191, 664 1 +18.01	1.451.810
202	15.785	17,981 (13,91)	19,586 124,11	17,997 1 14,01	18,409 1 16.64	19
# OF	11.53	12,700 1-6,21	- x 2 - 2x 2 21	12,022 1-11.24	11,976 1-11.60	Ξ
TON.	29.329	15", 185"08	1 8 90 28	10,019 1 2.41	30,185 1 3.64	30,836
100	10.100	27,214 1 9,41	24.747 117,01	22, 004 1 8.41	22,401 1 10.31	23,077
SASTURCAS.	89.0	14° 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	00.5 1 1.7 1	100.0 (12.3)	_	90.32
METUCAP	128.6	118.9 1-7.61	132.2 1-	116.4 1 6.01	129.4 (0.64	
METUCA	74.4	16.5 -1 5.07	14.1 1- 0.51	85.1 1 14.21	L	75.6
_	16.820	19,11 1 511.61	15.51 1 750 41	18,967 (12.8)	18.967 1 12.81	20,181
METUTON	6.69	11.2 -1 (.44	16,7 1 9,71	KO.7 (15.51	13.4 1 5.0	71.9
5	13,180	13,579 1 1,01	1 2 1 324 11	11,655 1 1.61	13,721 1 4.16	13,740
138CM	.65	10.5 - 1 14.	1 1 11-1 85	17.7 -1 54.	.611 - 5.6	\$ 29.5
BTUGSF	198.141	194,444 (-1.9)	117 1 666 616	10.01 1 508,615	l	
#TUGS	106.978	101,111 1-7.11	14.5 -1 621,401	(-1.2)	e.	97,042
250026	89.163	93,333 1 4,71	1	1,5.7	101,426 1 13.84	105,663
753						
151	1.672	1.664	189"1			1,730
252	1.165	1.173	1,169	1,186	1,141	1,185
3			11		10	
ş	356	606	1.86	84	1.6	128
3	Not Available Superseely Included Above		A12	794	906	868
Ş	128	328	676	06:	283	187
25	7.38	717	11.2	717	742	66/
25	4, 538	4.872	1187	4,772	4,709	4,728
2	1.082	1,170	1.233	612"1	1,187	1,189
53	2.500	2.500	605°2	\$15*2	2,517	615"?
#SE	148	148	951	1.51	156	128
N.S.	65	66	SUT	10	89	\$6
7	No. Assetship		•		6	í

PERANKS

IVFY 77 ECIP - Insulation - \$100,000 - Completed (estimated) June 1978

ZVFY 74 ECIP - Building and Heating System Improvements \$4,008,126 - Completed October 1978

3VFY 77 Family Housing ECIP improvements - '304,000 - Completed March 1980

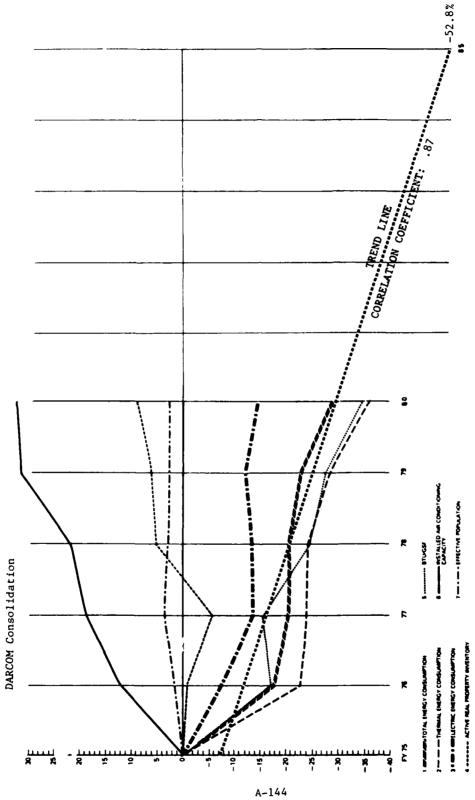


A-142

			11 1		1 -1 -1 -1	
Chertica	*	*	r		£	8
V1844	2 816.351	2,715,230 1- 1,61	2,916,903 (3,61	2,912,550 1 4.11	-	2.766.546 1 -1.
	067 119 1	1 493.377 1- 8.61	12	1.554.252 1- 4.91		1 346 625 4 - 17.
22.00	1 182 971	1 221.853 (3.34	1 170 944 1 15.9 1	1,378,298 (16.51	12.314.3 986,386,1	1,419,921 1 20.
NOM.	25.849	27,185 1 5,21	28 314 1 9.5 1	16.1 -1 1.91	22,113 1 -14,51	22. 595 1 -12
7.01	8.5.8	11.6 1 256 8	6,370 116,71	1.2.2 -1 251.2	-	2.683 (-50.
	31.307	33, 139 1 5, 81	14,478 1 10.8 1	<u>-</u>	-	25.278 1-19.
TAOM.	27.648	19,170 1 5,41	10.011 110.01	-	12.71- 1 798,22	23,489 1-15.
	89.9	81.9 1- 8.91	84.3 1- 6,51	1 2 6 1 2 86	-	109,4 1 21.
	101.8	93.1 1- 9.61	1 8.5 -1 6.56	- 9	-	117.8 (15.
THE COMMENSATION OF THE PARTY O	45.8	44.9 1- 1.81	18.5 1 2.87	16.72 1 72.91	-	62.8 1 37.
	577.6	1 6 1 577.6	10,748 (13.8)	10,829 1 14.71	-	18 099 1 91.
THE PROPERTY OF THE PROPERTY OF THE PARTY TOWN	125.2	129,4 (3.31	127.6 1 1.8 1	127.3 1 1.61	- 1 5	78.5 1-37.
	11.783	11,738 (- 0,4)	14,034 1 19.1 1	11,626 1-1.31	12,540 1 6.41	12,468 1 5.
12 Hall Fredericy Broughly Mary & 75	14.	15.5 - 107.	1 8.8 197	16.6 1 22.	.551 28.64	.53 1 24.6
	239,019	233,320 1- 3,21	207,786 4-11.11	252,241 1 5.51	-	221,892 (-7.
	138.631	127,226 1 - 8,21	110,127 1-20.61	133,688 1- 3.61	15.	108,007 6 -22.
_	100.388		1 2 3 7 1	118,553 (18.1)	107,683 1 7.21	113,885 13.
Se se se						
32	679	١.		1,109	971,1	1,254
3	519	}	\$24	522	532	536
2	,	,		_	-	
march, Development & Testing	119	579	a.	18	20	50
3	Non Avertable Superiority Included Above		0.75	950	539	539
T S	278	278	270	270	457	457
2	336	336	330	110	357	362
2	4_081_	4.029	3,896	1,954	4,153	4.153
20	1.044	1.064	958	958	1,142	1,253
15.5	1,554	3,554	3,553	3,553	3,616	3,336
136	310	308	2,780	277	423	355
23	7.1	100	R5	9.5	105	105
2	2040					

1 Fry 17 ECIP - Insulation, Storms, Boiler Plant Alterations and Energy Monitoring/Control System - \$5,289,722 - Completed (estimated) June 1978

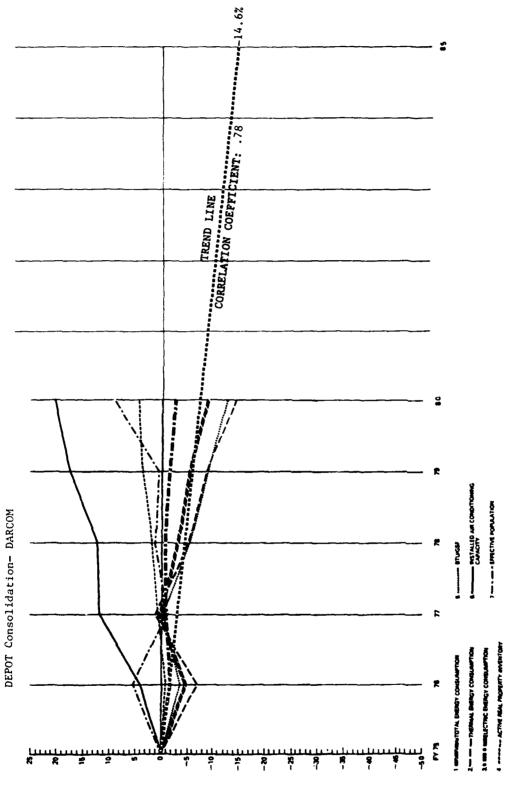
2 Fry 17 Family Housing ECIP Improvements - \$1,055,000 - Completed (estimated) May 1980



NOTE: THE EFFECTIVE POPULATION PLOT FOR FY 29 WAS AVENALED HEADER OF 78 WELL TO AVOID DISTORTION CAUSED BY REPORTING ERROR BY SELFFILMER ASSETS BY 13 YOUR

	MSTALLATION
ANALYSIS OF ENERGY CONSUMPTION	
U.S. Army	

	-						
_	252	¢	*	"	R	R	9
Charles Consumers in Fig.		58 907 087	18.71-1 634 307 83	46.762.743 1-20,61	46,723,325 1-20.7 1	45,340,353 1-23,01	
		10 100 120	_	29.874.660 1-24.01	_	28, 129, 942 1-29, 41	1
		27:50	_	-	_	17, 209, 404 (-12, 2)	16,724,820 1-14.7
		705-757-51	-	_	<u> </u>	17:15 1 589 55	40,162 1 9,2
£		787.41	-	200	-	16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	148,479 1- 2.6
2	3	152, 370	-	Ì	ŀ	ŀ	2 0 7 177 881
2	#OPLE	189,159	190,739 ' 0.5 '	185,958 1-1,71	-	-	
	1000	87 579	-	90.485 1 3.31	90,132 1 2.9 1	107,336 1 22,61	ı
2	20.00	7 111	251.8 1-18.51	251.5 1-19.21	240.9 (-22.6)	7	ı
2		, , , ,		516 B 1-23 21	118 4 1-22 91		466.9 1-30.6
		87776	72. 2 10. 3			309.0 1-42.01	416.4 1-21.8
ρ.		777		ľ		15.0 920 4 31.51	152,175 (32.6
		19.80	1	-	9	114.0 1-33.21	109.9 1-35.6
2.5	5	7.07	9	1			216,
Wild Receive Propulation		193.679	1	2	1 27 1 1 8 1	9 (-	2.42 (6.1
TV Communication COST & P.O.	3	8777	1	9	1 3 76 1 007 666	214 243 1-27 41	192,947
met for Consumerion (SPF to PO	3	28.384	1	7.70 0.00	ľ	1	1 1 2 1 8 2 1 1
8	TUGG	196.840	153,158 1-22.2	158,881]		
	TUCSE	98 144	91.527 1-6.7	89 815 1 - 8 5	80 544		
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March Development & Testing	2						
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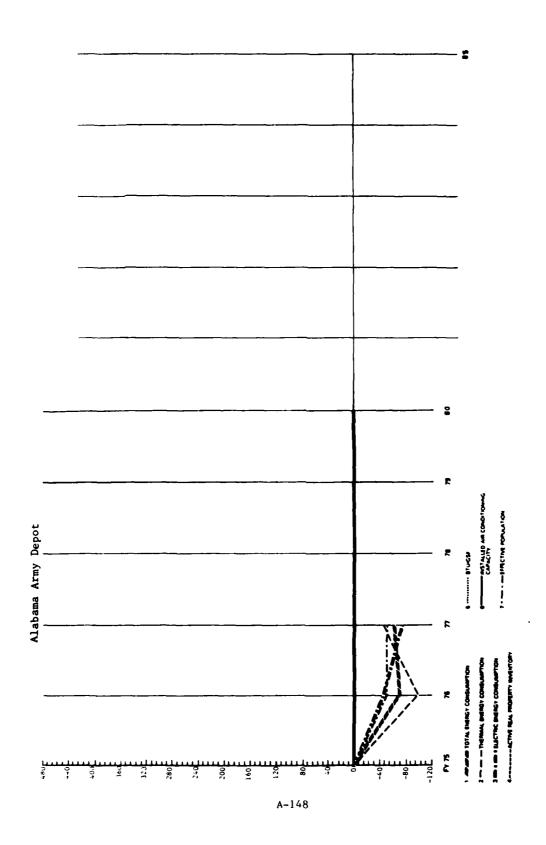
A-146

US Army ANALYSIS OF ENERGY CONSUMPTION INSTALLATION DEPOT CORSOLLINGTON

MACOM DARCOM

1 Energy Consumption & PD UNITS/FY	£	*	"	2	۶.	2
2 Themsel En Cons & PD NeBTU	8,646,346	8,259,671	8,667,902 ' 0,2 '	8 381 209	1,1 8,180,484 (- 5,4	7.868.125 1 -9
3 Electrical En Corns Sp PD	4,694,074	1.8.6 -1 188, 458 4	1.2 1	5 - , 589 657 7	1 2 8 -1 45 2 795 4 10-	4.026.450 1-14.2
4 Resident Population to PD	3.952.272	3,883,320 1-1.7"	1.918.943	J - 1	٢	-
5 Non Readers Population & PD PD PT PT OFLE	3,510		7	-	L	3,816 1 8.7
	43,248	-	;	0 , 072.67	42.681 1.13	67.163
	46,758	19,302 1 5.41	46,297 1- 1.0 '	-	0.41 46.489 (- 0.6	50.979
	17.926	18,873	17,712 (- 1.2)	18,139	-	19,537 1 9.01
	187.9	167.5 1- 9.41	187.2 1 1.2 1	178.5 1- 3.51	.51 176.0 1- 4.81	154.3 1-16.54
10 Electric Sn Consumption/Resident Population MRTUCAP		417.6 1 - 9.31	1.89.6	462.1 1- 4.21	.2. 453.6 1-6.0	402.7 1-16.5
£		1,061.1 1-5.71	1,146.0 1 1.8 1	1,052.5 1-6	-	1,006.7 1-10.6
	8	18,712 1 1.81	20,149 11.8	20,242 12	12,31 21,215 12,7	21,717 (20.5
	L	207.5 1- 5.41	194.5 1-11.31	193.7 1-11.7	183.0 (-16.6)	176.9 1-19.3
14 Meritan Production	75, 390	14,713	75,710 1 0.4 1	76,831	l	78,694 1 4.4
15 France Consumers City to 80	7.7	1.9.6 - 1. 96.1	4.27 1 1.4 1	. 24	0.71	 - e:
•	114,688	110,522	114,488 (- 0.2)	109,086	4.91 104.980 1- 8.5	99,984 (-12.8)
17 faces of page 25 and 17	62,264	58, 561) 1- 5.91	62,737 1 0.8 1	-		51,166 (-17.8)
850nB	52,424	51,962 0.91	51,751 (- 1,3)	51.041 '- 2	49.834	
2				X		
151						
51						
7.1						
51						
151	Nos Averages Separatery by suded Above	BASE				
2						
3						
RSF						
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Su de la companya de						
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2	Mrs. A., salabide					

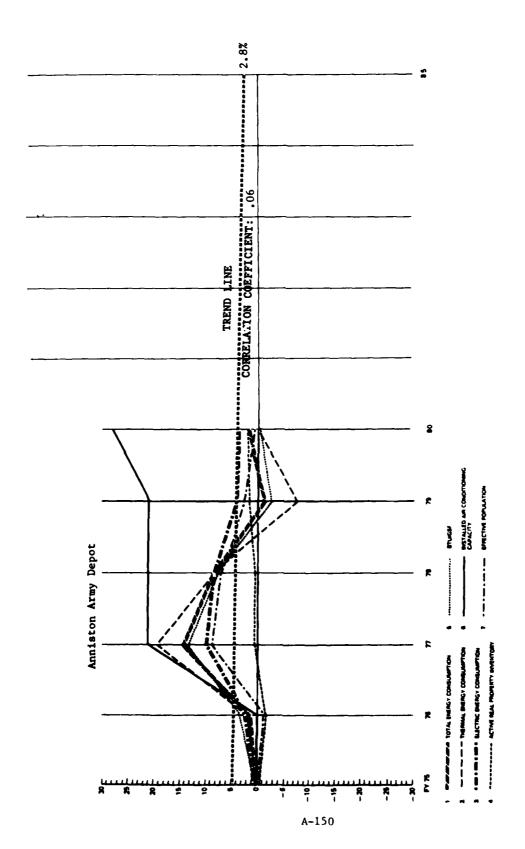
CORPUS CHRISTIE AD DATA WAS NOT REPORTED FOR FY 75. FY 76 DATA WAS ALSO USED FOR FY 75 FOR THIS CONSOLIDATION.



U.S. Amy ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION ALABAMA ARMY DEPOT. AL. MACOM DARCOM. CLIMATIC REGI	ON 4 HDD 2,806 CDD 1,886
ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION ALABAM	CLIMATIC REG
ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION ALABAM	MACOM DARCON
ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION ALABAM	ARMY DEPOT. AL
ANALYSIS OF E	371
ANALYSIS OF E	- INSTALLATION
₹	SIS OF ENERGY CONSUMPTION -
	₹

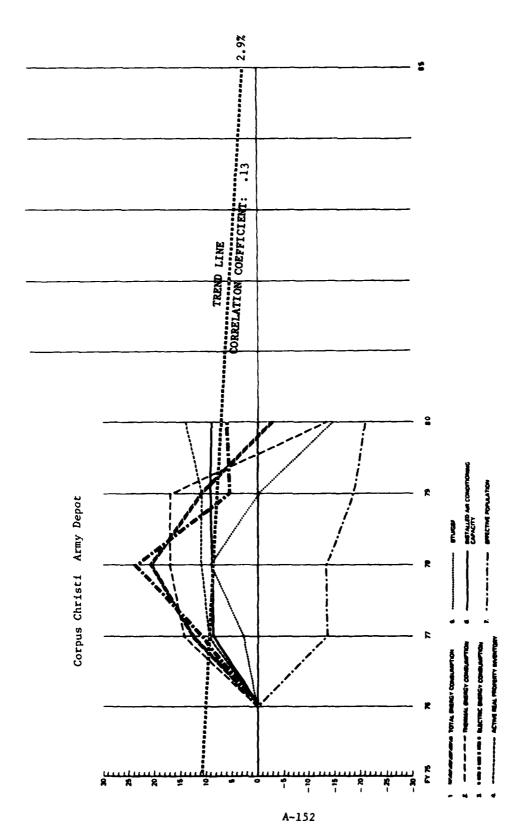
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	UNETSEY	£	2		4		R			R	
1 Energy Consumption & PD	UTOM	15.341	707.7	1-71,31	5,699	1 -62,91		-		-	-
2 Thermal En Core & PD	57897	7.211	88	1 -98 8 1	3,762	1-47.81	,	-		-	-
3. Electrical En Comp to PO	UTBN	8 130	4.115	16.94-1	1.937	1-76.21	,	_		-	-
4. Resident Population to PD	100		•	-	q	, 6		-		- 	-
5. Non-Resident Population & PD	PEOPLE	17	20	1-51.21	20	1-51.21		1		•	_
6 Population Served** 6 PD	PEOPLE	(4)	20	1-51.21	20	(-51.2)		-		-	-
7 Effective Population*** & PD	PEOPLE	14	7	1-50.01		(-50.01		~		-	
8. En Consumption/Pop Saved & PO	METUCAP	374.2	220.2	(-41.1)	284.95	1 -23,81	,	ŀ		-	-
9. En Consumeront Fifth to P.D.	METUCAP	1,095.8	629.1	1-42.61	814.1	1 -25.71	,			•	-
10 Becate for Consumerical Business Provincian	METUCA				1	1	-	-		-	-
-	roes			-		1	-	1		-	^
12 Ber frame Ten of the Cond in 10	METUTON		t	-		1	,	-		-	-
12 Per Present Innerent ST & P.	T.S.	1.739	-	-		11	-	ľ		-	-
**	KSFICAP	124.2		-	,	-		-		-	-
15 France Communicate to PO	STUGS	8,821.7		-		-	1	1		-	-
16 Per 19		4,146.6	-	-		1 ,	,	1		-	-
Ca Secretary Contracts to the				-		1		ŀ		-	-
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		1.214									
	KSF	,									
	157	175									
	100	Nes Australe Separately broked Abov		EASE.				Н			
	KSE	12									
	100	, hé									
	100										
Control of the last	KSK	[18									
	KSF.							4			
Operational Date damps		254									
	1	Not Available BASE									
3			A	-	of the Parishman & Parishman						

In caretaker status since PY76.



CLIMATIC REGION 4 HDD 2,806 CDD 1,886
MACOM DARCOM
ANNISTON ARMY DEPOT, AL MA
INSTALLATION
- ANALYSIS OF ENERGY CONSUMPTION ~
.S. Army

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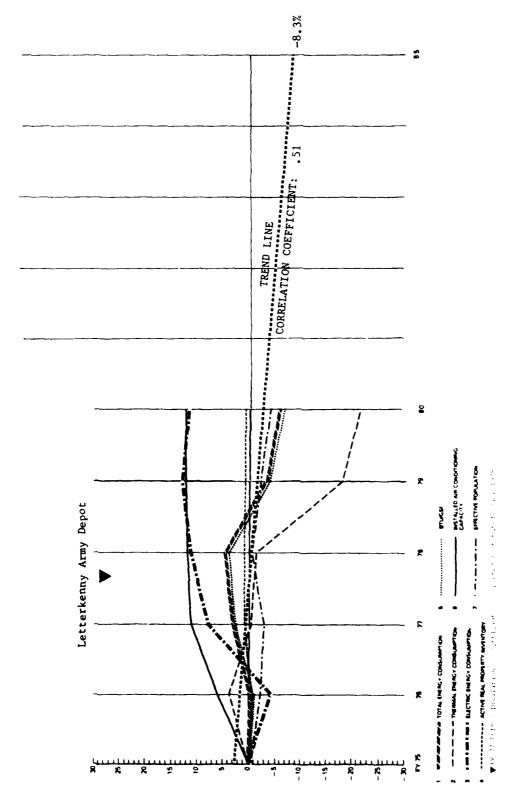
CLIMATIC REGION 6 HDD 930 COD 3,474 CIPOS CHINELL AD, TOXAS MACOM DARGOM U.S. Amy ANALYSIS OF ENERGY CONSUMPTION

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(1) Not Reported in FY 1975 - Use FY 1976 as Base Year (2) Corpus Christie AD is Tenanted on a Navy Operated Installation

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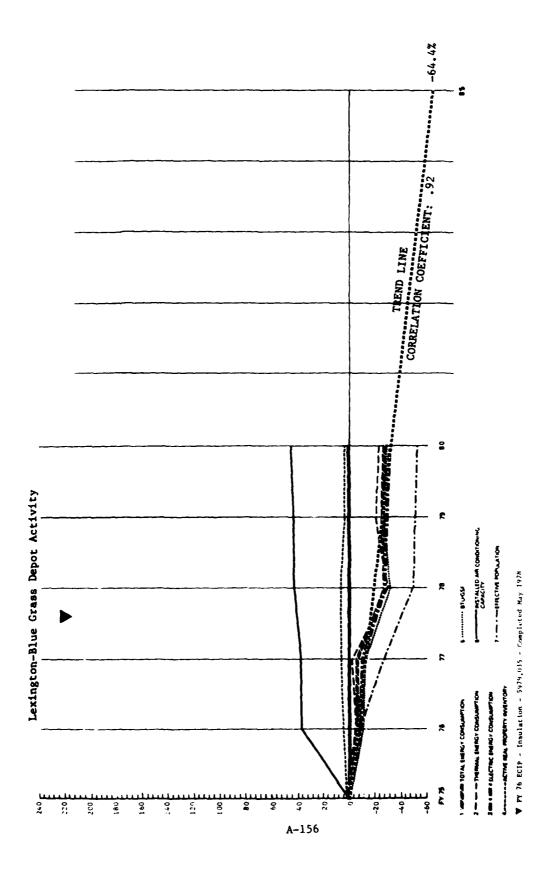


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COMPUTER SCIENCES CORP FALLS CHURCH VA SYSTEMS DIV ARMY ENERGY DATA ANALYSIS, FY 80 UPDATE.(U) JUL 81 DE-/ AD-A104 134 F/6 13/1 DE-AC01-79-CR-10001 UNCLASSIFIED USAFESA-T-2108 NL 3 - 1 4: 4:54:3:

							
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1 Energy Consumption 6 PD	MBTU	100,996	110 - 1 606 766	1.031.375 1 3.01	1.042,342 1 4.71	962.837 (- 3.3)	937.186 1-5.9
2 Themse fin Com to PO	METU	527,881	117.5 1 797.725	_	11.1.1 1.1.15	433,277 1-17.91	٢
3 Fluctured En Cons to Pto	#8TC	468,120	447.706 1 - 4.41	505,373 (8,0)	521,171 (11,3)	\$29,560 13.7	1
1 Readont Population is PO	FOFE	208	199 (- 4.31	192 (-7.7)	191 '- 8.2'	185 (-11.7)	179 (-11
5 Non-Assetsen Population & PO	200	5,560	5.446 (-2.1)	5.427 1-2.41	5.573 (0.2)	5.479 1 - 1.9	5-409 1-7
	FORE	5,768	5.645 (- 2.1)	5,619 1- 2.61	5.764 1 - 0.11	5.664 (- 1.8)	5.588 (-3.)
Filectors Population*** to PO	FORE	2.061	2.014 1 - 2,31	2,001 1- 2.91	2.049 1 - 0.6)	2.011 (- 2.4)	1987 1 - 1.8
ę	METUCAP	172,7	176,2 1 2,11	183,6 1 6,31	- 000	170.0 (- 1.0	1
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	METUTON	212.3	191,6 1 - 9,81	206,3 (- 2,81	210.9 4 - 0.71	214.3 (0.9	211.5 1 -9.4
	Ž,	6.856	6,852 (- 0,1)	6.901 1 0.71	6,908 1 0.81	-	0 1 906 9
	ISSCA8	3,33	3,401 2,31	3,451 3,71	3,37 1 1.31	5	1.48 1 4
5	200	145,274	145,199 (- 0.1)	149,453 1 2.91	150,889 (3,9)	139,663 (- 3.9	135, 706, 1-6.6
	BTUGSF	76.995	79,859 1 3,71	76,221 1- 1,01	75,445 1 - 2.01	848 (-1	60.024 6-22.0
		68,279	1-4.31	73	75,445 (10.51)	76.815	10 1 10
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		average property females of the Abert	3548	2.736	2.737	2.743	2.746
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	KSF	317	11.7	321	321	321	711,
	3	7	7	9	9		
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	T.	69	69	69	69	69	69
		400	199	897	894	435	37.5
•			67	69	6,6	8,5	67

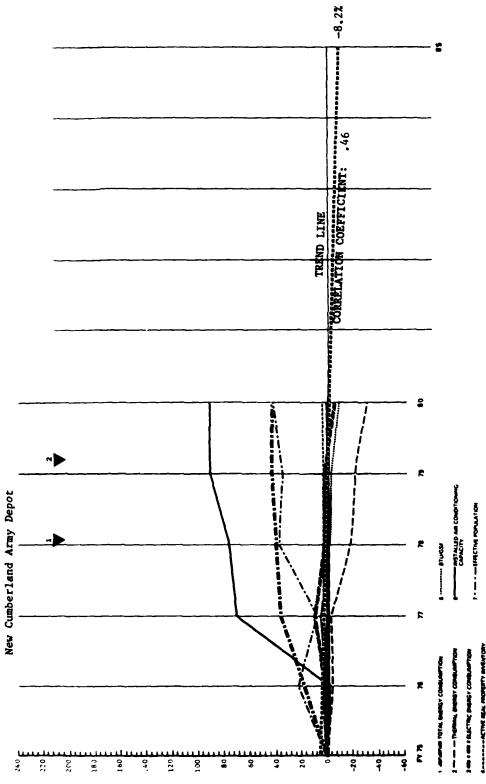
VFY 77 ECIP - Insulation - \$2,661,496 - Completed (estimated) June 1978



Y CONSUMPTION - MSTALLATION LEXINGION-BLUE GRASS REFACT, MACOM, DARCOM CLIMATIC REGION 1 HDD 4,229 CDD 1,197		
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Y CONSUMPTION _ MISTALLATION_	LEYINGTON-BLUE GRASS DEFACT MACOM DARCOM	
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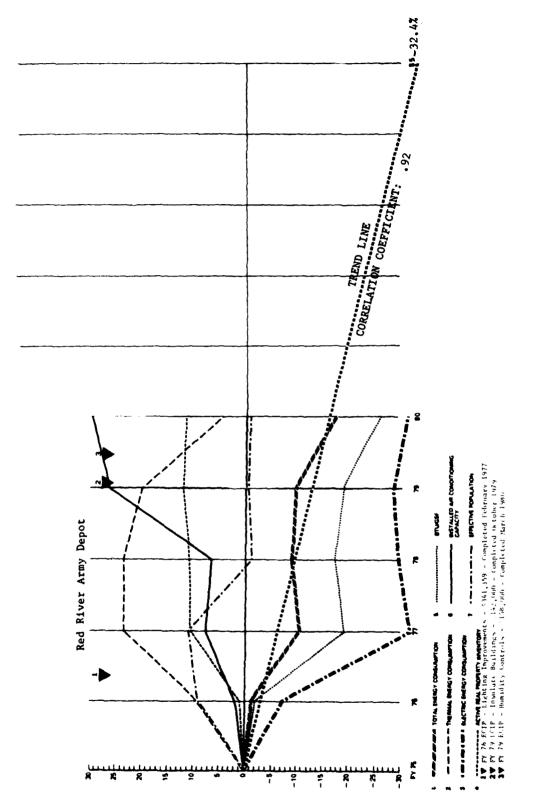
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Hearth	Mary Consumption to PO	2100	\$55.214	ئ	215,004	190	l y	. 119	395,278	t-28.8
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Figure 1,946 1,554 1, 2,941 1,545 1,521 1,546 1,531 1,136 1,531 1,136 1,531 1,136 1,531 1,136 1,541 1,542 1,136 1,542 1,136 1,542 1,136 1,542 1,136 1,542 1,136 1,542 1,136 1,542 1,136 1,542 1,136 1,542 1,542 1,136 1,542 1,542 1,542 1,542 1,544	adeas Population to PO	SECOND.	١.	-	1 88	-	1 0	1 0 1 58	89	(-20.D
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	Od 9 phanes general	MONE	, 033	-	2,865	1,931	1 11		1.804	1.22.1
13 13 13 13 13 13 13 13	com Population*** 6 PO	NO.	107	-	1,1	1002	10.00		647	533.8
The contract 136	Consumption Pay to 90	See The See	1317	142.6	179.8	204.6	19.8	_	219.1	. 65
Second 1,356	Consumption (Et Pay is PO	METUCA		1 6.807	ا- اء	1 7.995	12,41	li	610.9	1.54.7
1006 11 12 12 12 12 12 12 1	ark for Contumption/Resident Population	METUCAP	-	3.185.5 1-	3,030.0	8 1 7,463.3 1	27.51	1	7833.1	4.412
Section Control Cont	affect Air Const Capacity 6 PD	1045		-	6) 1.230 (1,332	13,11	ļ	1.156	4 . 6
State	SheeperTon of Ale Cond B PO	AND TANKS	1 011	-	100,6 1-	6 1 157.2 1	40,31		142.1	1.54
Section Sect	Property Presents Mark & PO	2	807.5	5.70%	2.	6,11	6.01		5,542	1.2
The column The	Checima Population	SACA6		-	1 19.5	8.1	12.21	Ξ.	8.57	0121.9
### 19 1.0	WY Companyment CSF It PO	BTUGSF	3	287	89, 785	1 68,886	12.91		71,324	130.5
Third Thir	west for Consumptions/GSF to PO	STUGGE ST	49 279	818	1 44,892	1 32,376		,896 1-23.11	36.562	£25.8
19 19 19 19 19 19 19 19	stool for Consumpation/GBF is you	Mark Con	13 386	_	44.892	36,510	31.61	5,410 (-)1.8.	34.762	L36.9
19 19 19 19 19 19 19 19	N Company	100		_	****	****	$\overset{\circ}{\otimes}$		××××	
150 151	_	953	19			19			7	
150 1,000	Merita & Petalism	K.SF	533	540	534	534		460	Ä	
Section Sect	effech. Development & Tenang	152		7	1	1		-	-	
Light Light 2,065 2,059 2,059 2,058 2 0.08 2 0.08 2 0.08 2 0.08 2 0.08 2 0.08 2 0.08 2 0.08 2 0.08 2 0.08 2 0.08 2 0.08 2 0.08		100	4.216	4.225	2,192	2,192	~	192	7,837	
14 14 14 15 15 15 15 15	he Consed Sange	2	Not Avelante Separately Included Above	•	7	2,059	7	1058	2.058	
158 158	count & theaten	E.	14	14	14	14		178	97	
1		9	227	227	223	223		158	77	
Tage BB BB BB BB B7 LdG B7 B7 LdG B7 B7 LdG B7 B7 <td>State Spatia</td> <th>952</th> <td>,</td> <td>2</td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td>	State Spatia	952	,	2	2					
12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	Attended y for days	100	88	88	88	88		8	å	
155 254 254 531 4669 1669	A 10-10-10-10-10-10-10-10-10-10-10-10-10-1	1671	25	32	33	32		2	7	
14	second by dra	100	254	524	531	11.5		469	228	
New Australia	is designing	K.SF	23	30	30	07		0.4	63	}
		100	New Australia	2				2	1	

way 16 prin . Inaulation - \$979.035 - Completed May 1978



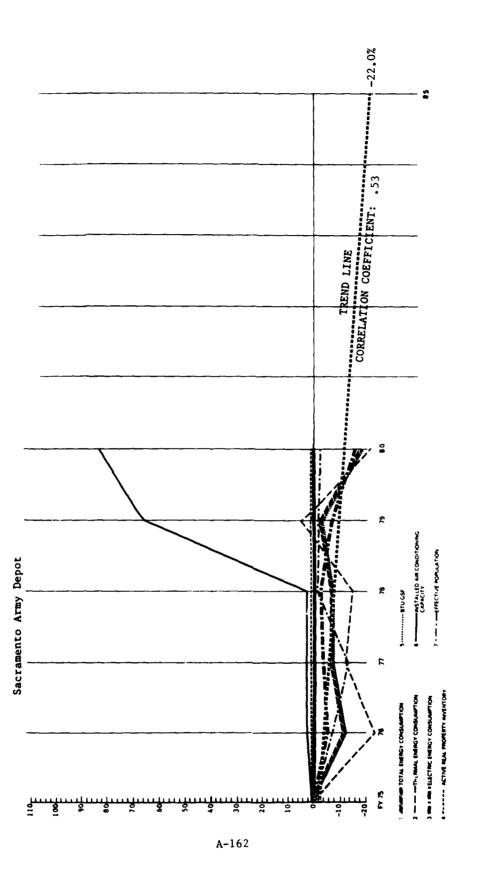
S Arms ANALYSIS OF FRERGY	CONSCIME	115 AME AND YELS OF ENERGY CONSUMPTION - INSTALLATION NEW CUMBERLAND AP. PA	TERRIAND AP. PA	MACOM HARCIN	CLIMATIC MEGICAL AND AND AND AND AND AND AND AND AND AND		~	
	-	-	-	-	-	-	•	
Ľ.	UBSTSAY	*	R	u	Ŗ	R	9	
	218	A65,155	896,266 1 3,61	ľ	889,219 1 2.81	870,134 (0.6)	812 727	-
2	METO.	562, 151	537.760 (- 4.41		1	435,167 1-22.61	225	-31.91
	on on	302 804	-	412,156 1 36,1 1	426,834 1 41,01	435,167 (43.7)	429,502	18:17
	FORE	401		391 1- 2,5 1	[~	387 (- 3.51	389	9.5
	#OPLE	4.545	-	5,041 10,91	-	6,530 (43,71	166'9	53.84
2	FORTE	4.946	-	5,432 1 9,81	-	-	-	48.21
-	HOPE	1.916	-	2,071 (8,1)	2,662 1 38.91	2,564 (33,8)	2,719	16.13
	METUCAP	174.9	143.5 1-18.01	176.5 1 8.8 1	128.4 1-26.61	125.8 (-28.1)	1.011	0.16-
R	METUCAP	451.5	381.7 1-15.51	462.8 1 2.51	334.0 1-26.01	339.4 (-24.8)	6.8%	13.81
e	METUCAP	755.1	898.5 4 19.01	2,054.3 1 39.61	16.9 1 6.918			2.97
-	Salo	789	֓֞֝֟֝֟֝֟֝֓֓֓֓֓֓֓֓֟֟֝֟֝֟֟֝֟֝֟֝֟֟֝֟֝֟֝֟֝֟֝	1,343 (70,21	1,388 1 75.91		867,1	6.68
_	METUTON	383.8	459.6 1 19.81		307.5 1-19.91	290.5 1-24.31	786.7	-25.31
_	KSF	5.319	5,346 1 0,51	5,515 1 3,71	5,513 (3,6)	5,512 (3.6)	18.5	1
	KSKCAP	2.78	2.28 (-18.0)	2.66 1- 4,11	2,07 1 -25.41	2.15 (-22.6)	2.03	-26.91
	BTUGSF	162.654	167,652 (3,1)	173,799 1 6.91	161,299 1 - 0,81		127,313	17.6-
	BTUGSF	105,725	100,591 1- 4.91	18.9 -1 940,66	83,875 1-20,7)	Ι-	1 69,463	-34.31
Manage of the	BTURGS		67.061 17.8	74,733 (31,3)	77, 423 (36.0)	18.949 1 38.71	77,851	36.8
OF STATES								Ņ
		3	3	3	3	3		
	KSK	602	598	009	109	512	316	
	IST.	12	12	71	12	12	~	
). Development is Tearing	KSF.	3.880	3.861	1	1	1		
	IS#	Not Available September Protected Above	35VB	3,984	3,982	600.7	200.7	
Other Covered Starage	N.S.	,	7	,	1	,	_	1
Mangered St Mandezal	rs.	355	350	353	353	353	192	
	rs.	8.3	83	83	R3	83	100	{
_	KSF	158	159	159	158	159	160	
Continuanty Fist days	#S#	204	204	204	204	204	20.	
Suppose Appares	KSF	7	19	101	101	101	191	
Operational But desgs	l St	8	8	8	8	8		
Jesty Buddings	161	Not Avelable BASE						
Dire.		*FD as Parcens Deveston from Base Year		"Population Served is the local Resident & Mon-Resident Populary	*EN Fop is flagstart +	1/2 Non-Resident		

1▼FY 77 Family Housing ECIP Improvements - \$20,867 - Completed (estimated) October 1978 2▼FY 79 ECIP - Insulate Buildings - \$237,000 - Completed November 1979



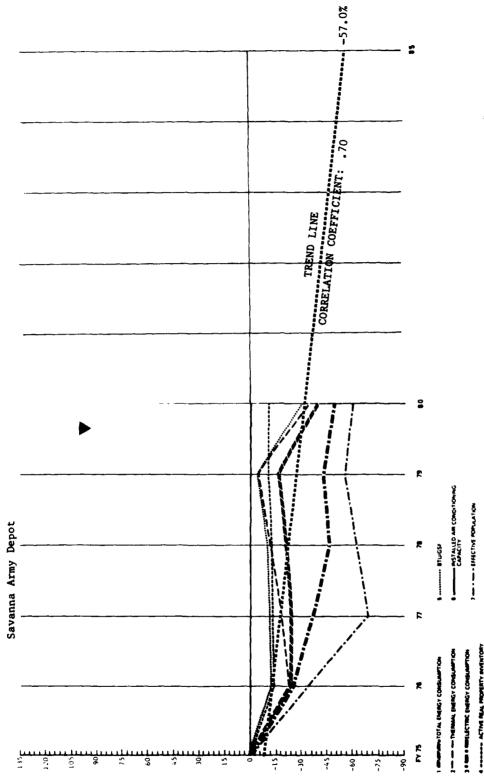
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		200 001	7.000	1. B.O.C. OF 1. 280	1.003.789	1 01-1 252 566	907 220 1-17
The state of the s			050 057	531.431		1 02+1 125,112	447 825 6 4
Contract to Contra		673 731	17.5 1 7.61	-	471,780 1-29.91	11 62-1 111-112	459 395 131
A Company of the Comp		202	317	1 707 1 607	242 (-17.11)	11.50 -1 162	218 -25
		767	-	5 864	5,589 i 1.31	5,550 1 0.61	5.674 + 2.
	3	2000	-	6 273	1831 1 0.41	5.841 1 0.61	5.892
OL O SAMEC ACTION OF	3	out C	,,,,,	794 6	-	7.141 0.51	2 109 4 -1
Chectere Population *** 6 PD	700	2,131	- -		13.0	7.	81-1 0 751
8 En Companyhor/Pay Sarved to PO	METUCA	189.9	177.6 1 - 6.77	Į	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ľ
9 En Compartmentant Filtre fa PO	METUCAP	\$17.5	469.4 1 - 9.33		-	١	430.2
10 flacts for Communications Providence		9 101.9	1,498.3 (-35.0)	1,106,8 (-52,0)	-	إ	2,10/.3
		ľ	2 288 1 1.91	2,417 (7,61	2,389 1 6,41	١	2.921 1 30.
The formal day to Comb B.	MOTATION		12.8 1 - 9.31	187.3 (-37.51	197.5 1-34.11	4	157.3 1-47.
	2	1	16.0 1 6.91	7,125 1 10,7 1	7,126 1 10.71	7,206 (12.0)	7,168 , 111.
	a Contract	3 03	2.80 (- 7	3.01 1- 0.2 1	3.39 (12.11	3.37	3.40 (12.
The second secon	D. W. L.	171 355	167 898 1 - 2.01	138.124 1-19.41	140,863 (-17,8)	138,112 (-19.4)	126,565 1 -26.
	DON CO	66 830	72 196 1 8.01		74,657 (11.7)	11,818 17.51	62,476 1 -6.
		00.002	L	(1)	ı	2	64, 090
17 Becarded in Commenceanics is no							8
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t description of the second	2 2	90	050	1,1	181	1.196	1.198
Mantenance & Production		1.149	ngm				,
Research, Development & Teams	3					1 7.00	1 248
	25	4.103	4.111		1,77	88.4	
Ober County Street	#St	Not Available Separately Included Abov	TASE TASE	2,891	2,891	2,330	2,333
	151	4	9	i 6.	9	٩	٥
	3	316	576	245	245	250	235
	2		12	12	12	12	10
Barbara America	2	88	5	96	97	105	116
Community or the same	2	78	7.8	11	117	110	52
Purpose Assessed	9	589	\$89	693	692	708	711
Character de Character	9	3.3	09	55	72	70	73
Carry Barbary	7	200	,	22		8	9

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CLIMATIC REGION
MACOM DARCOM
ACRAMENTO ARMY DEPOT, CA
- INSTALLATION SACRA
RGY CONSUMPTION
ANALYSIS OF ENERG
U.S. Army

Co Milly American Control of the Control								
	_			1. 1 1. 1	11	_ 11 _1	1 1	-
	UNITSAY	ĸ	2	u	P	P	8	
1 France Consumption to PD	MBTU	392 325	343.693 (-12.4)	365,290 1- 6,93	363,855 1- 7,31	379,573 (- 3.31	320,147	1 -18.4
2. Thermat En Cons & PD	MBTU		545	124,199 (-12,1)	120,073 1-15,01	148,034 1 + 4.81	109,375	1 -22.0
1 Succession Come Is PO	UE	7	-	160.172	243,782 1- 2.91	231.539 1 - 7.81	210.772	11-16-1
2	PEOPLE.	27			33 (22.21	28 (3.7)	28	7
A Man Bentan Brandson is 20	THOM:	716 6	2 676 (- 8.2)	2.488 (-14.61	2.879 (-1.2)	2,819 (- 3,3)	2.819	7
	FORE	170 (1108 1 307 6	ľ	2.912 (-1.0)	2.847 1 - 3.21	2 847	7
	MONE.	800	022 1 - 7.61	-	15'0 -1 160	968 1 - 3.00	848	-
A CHARLES POPULATION OF THE PARTY OF THE PAR	METUCAP	7 111	-	ح	124.9 1-6.31	-	L	-12
of Commence of the San San San San San San San San San San	METUCAP	303.1		-	ŀ	392.1 1 - 0.31	330.7	-
	METUCAP	9 299 6	7 904.9 1-15.01	3	7,387 (-20,6)	8,269.3 1-11.11	7.527.6	-
The state of the s	7045	612	628 1 2.61	628 1 2,61	62R 1 2.61	1,010 (65.0)	1.117	- B2
	METUTOR	1017	9 - 9	383.9 (- 6.41	388.2 1-5.41	229.2 1 -44.11	188.7	3
	201	2 874	-	2.838 (0.51	2,839 1 0,51	2,839 1 0.51	~	-
The state of the s	KSFCAP	2.83	3.08 1 8.81	1,301 16,5 1	2.86 (1.0)	2.934 3.64	L	3
the form Commence of the comme	BTUGSF	138.925	121, 104 (-12,8)	128,714 (- 7,41	128,163 1- 7.71	133,700 (- 3.8)	112,768	4 -18.8
	BTUGSF	50.013	37.542 1-24.91	15.21-) (97.51	42,294 (-15,4)	52,143 (4.3)	38.526	1 -23.0
ľ	BTUGSF		ľ	1- 4.51	85.869 1- 3.41	÷.	74.242	-16
17 technol to Language broken a ru	KSF							
	K St		89		89		98	
	KSF	284	284		302	302	302	
	181	-			3	4	,	
Control of the contro	KS.	2.123	2.134			•	,	
	#SX	Not Augustic Separately Included Above	3574	1.847	2,102	2,102	2.102	
	ır St	7	7	7	7	- L	_	
	KSF	184	184	185	191	191	161	
	KSF	19	1.9	39	39	39	39	
	KSF	3.6	5.6	317	54	55	55	
Community of See	KSF	19	19	19	1 61	19	19	
	136	38	38	37	38	37	37	
Operational But dings	KS.	A		16	16	16_	91	
Cally Buddengs	код	Not Augustia		1	3	1	-	
		Yes a fracerit Deveton from Base V	Year "Population Served is 1	on Served is the total Resident & Non-Resident Popular	non ***EN Pop is Resident +	1/2 Non-Pasidens		

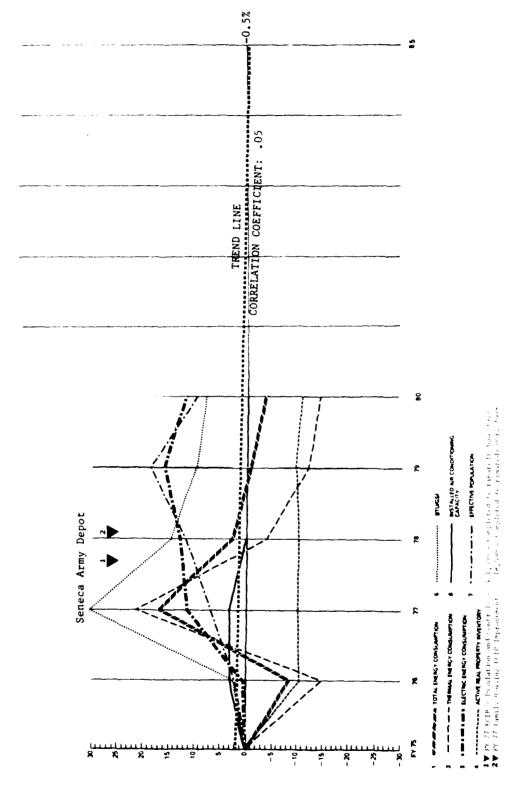


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CLIMATIC REGION
MACOM DARCON
SIS OF ENERGY CONSUMPTION - INSTALLATION SAMANA AREA DEPOT. LIL.
US ALMY ANALYS

	CARTSON	ĸ	R		R	Ř	2	
L Enggy Consumption Is PD	2194	243 662	ľ	186,466 1-23,51	-	R18 1-16	147,826	(- 19.)
Thurmal En Cons & PD	210		-		152,159 (-12,0)	164,655 1 - 4.81	112.550	1 - 34.9
Electrical En Corre to PD	MBTU	70 661	51.061	44,751 1-36,7 1	Ī	41 163 1 -42 1	35.276	1 -50.1
4 Resident Population to PO	100	340	212 1 45.61		71 (-81.87)	97 1 -75,31	78	-80.0
5 Nun Resident Population is PD	Monte	F6.2	[522 '-34,61	571 (-28, 4)	675	1-31.2
8 Population Served** 6 PO	MORE	28.1		513 1-56,81	593 1-50,11	-	179	1-67.2
? Ethectime Population*** is Pt)	F0*1	656	1-	1 2 64.7 1		-	192	1-60.2
8 En Consumption/Pop Served & PD	METUCA	205.1	1 H. 1 1 P. M.C.	163,5 177,21	320.7 1 56.41	-	235.8	15.0
9 En ConsumptionEll Pop & PD	METUCAL	371.4	427.6 1 13.81	1 6,521 0,550	176,3 1109,01	-	7'995	\$ 52.5
10 Electric En Consumption/Resident Population	MOTUCAP	2.181	250.3 (38.17	1,065,5 1488,1 1	535.8 1195.71	424.4 1 134.21	452.3	4.641
1) Seattled As Cond Constant to FO	TONS	597	-	1 0 1 547	1 U 1 599	1 0 1 597	595	0
12 flex Emerge/Ton of As Cond B PD	METUTON	152.0	114.1 1-24.91	96.2 1-36.7 1	81,8 1-46,21	88.5 (-41.7)	75.9	1 -50.1
13 Real Property breamany (Ref. & PO.	20		-	1, 2,11.1 213,4 1	3,852 1-13,01	3,914 (-11.6)	3,895	1-12.0
14 Bold Name Product	RS/CAB	6.75	R R 7 1 30 61	19.27 1185.5 1	15,72 (132,91	13.64 (102.0	14,92	121.1
15 English Communication GSF Is PO	Brucs.	55.028	-1	48,622 (-11.6)	49,376 1-10,31	-	37,953	-31.0
16 Thermal En Comparmperon/GSF & PD	Brugst	19,070	10, 01-1 2,01	17 5 -1 150 71	1.1		28,896	1 -26.0
17 European En Communication/GSF fo PO	BTUGSF	15.958		11.669 (-26.9)	9,875 1-38,1	7	.11 9.057	-43.2
18 APT by Category	¥S¥						*****	
	#S#	**	1,9	6.2		62	78	
Sentendence & Production	25	346	283	287		287	292	
Omercones is James	ž.	ถ	13		13	13	2	
•	151	3.641	3.283	2.525	2,525	2,525	2,505	
Office Constant States	KSK	Not Available Separately Included Above	EASE	767	767	767	765	
there is the contract	552	01	10 1	10	10	10	10	
	454	113	71	7.5		83	83	
	35.	09			1	38	38	
	55	7.0	25	27	34	31	32	
	25	7.7	34	34	777	65	65	
	252	0	ec	æ	8	7	g	
Cope micros du cargo	35	25.	26	2.6	26	26	24	
*	2	Name Assessment						

▼ FY 19 FY IP - Insulation & Night Set-Back Thermostats - \$249,000 - Completed (estimated) May 1980

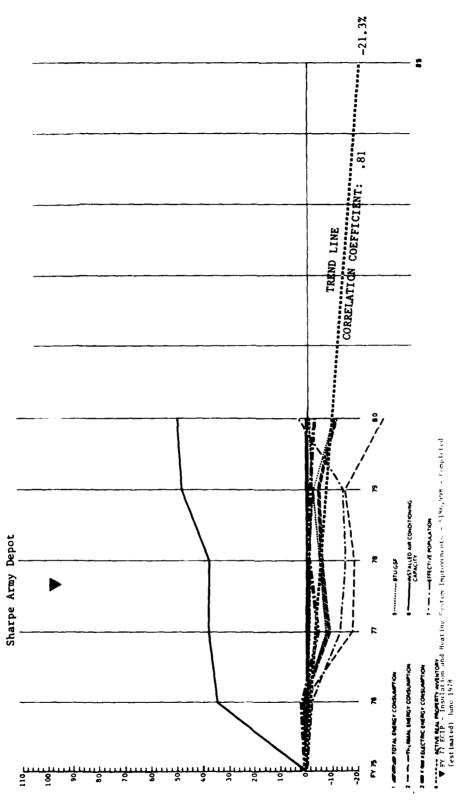
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ON, HOO 6.359 CDO 655	
CLIMATIC REGI	
MACOM DAPCOM	
INSTALLATION SENECA ARMY DEPOT, 12	
ANALYSIS OF ENERGY CONSUMPTION	
US Army	

	See 15.67	£.	₹	"	R	£	8	
M Consumption in PO	MBTU	162 501	1979 -1 527 626	1 1 2 1 1 10 1 7 7 1	ì	301,870 1 - 0.61	295,117	-
Themse for Lons to PD	DI BE	152.509	153,590 1-1:4"		177,055 1- 4,11	158,013 1-12	154.850	7
Electric at En Cont to PD	18 10	125, 168	125.745 1 0.31	139.920 11.61	141,508 (12.91	145,857 1 +16 1	140 267]= -
Resident Population to PO	100] :17	599 '- 1.8'	£01 12.5 i	852 1 19,71	923 1 29.61	785	- -
5.	FOFTE	897	1.000 1.1.5	1 5 6 -1 058	835 1-6.91	834 1 - 7.0		°
	3 WOM	1.609	1.639 ' 5.5'	1.6.1	1,687 1 4,R1	1.757 1 9.21		-
•	100	110.1	1,032 1 2,11	-	1,130 1 11,83	1,201 1 18.81	100] -
6	BTUCA	0.061	18,51-1 2,481	10.21 1 7.810	185,4 1- 1,91	172.9 1 - 9.0		=
	BILLCAP	302.4	270.8 1-10.51	111.0 1 0.11	278.3 1- 8.01	253.0 (-16.3)		2
Pre-Pro-Aminon	BTUCAP	1.471	179.9 (2.21)	174,7 -1 0,8 1	-	158.0 1-10.31	178.7	-
	TOMS	95.5	470 1 3.11	176 , 575	1 0 1 957	1 0 1 957	45.4	-
_	MBTUTON	6.422	257.5 12.2.71	11 8 1 6 200	310.3 1 12.91	319.9 1 16.30		= -
	3	4.370	1,439 1,10,71	1 0 01-1 22 7	4,458 1-10,31	4.4R6 1 - 9.71	ا	٦
_	RS-CAP	76-6	4.301-12.51	4. 14.1-15,8 1	3,95 (-19,7)	3.741 -24.0	10 4	٦
	BTUGS#	525.19	62,950 (2,31	1 7.06 1 062.08	11.210 1 14.71	67,737 1 10.19	90,4.99	-
	TUGSF	35,190	34,623 (. 4,61)	4 8, 46 1 1 34, R 1	18,797 1 6,91] -
_	BTUGSF	25.235		10.45 1 24.01	{	32,514 1 28.9	11.563	1
_	15.5							Ŕ
	KS.	8	æ	1.5		16	٤	
S. T. S.	157	208	208	30.	208	208	Š	
	155					3	-	
	184	3.637	3.510	1.136	1.112	1,132	8	
51	151	Not Available Separately Included Above		2.510	2.511	2,510	2 510	
	153	В	8	8	18	ı	=	
	25	75	7.7	78	78	78	^	
	5	76	7,6	76	*	ż	3	
Sin Sin Sin Sin Sin Sin Sin Sin Sin Sin	*	120	120	111	133	134	~~	Ì
.	*	221	221	221	221	231	230	
	3		15	41	15	07	-7	
	KS	557	2.6		26	26	4	
AND AND AND AND AND AND AND AND AND AND	3	Not Averlable BASE	9.6					
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IV FY 77 ECIP - Insulation and Controls - 5421,000 - Completed (estimated) June 1978
ZVFY 77 Family Housing ECIP Improvements - 518,500 - Completed (estimated) October 1978



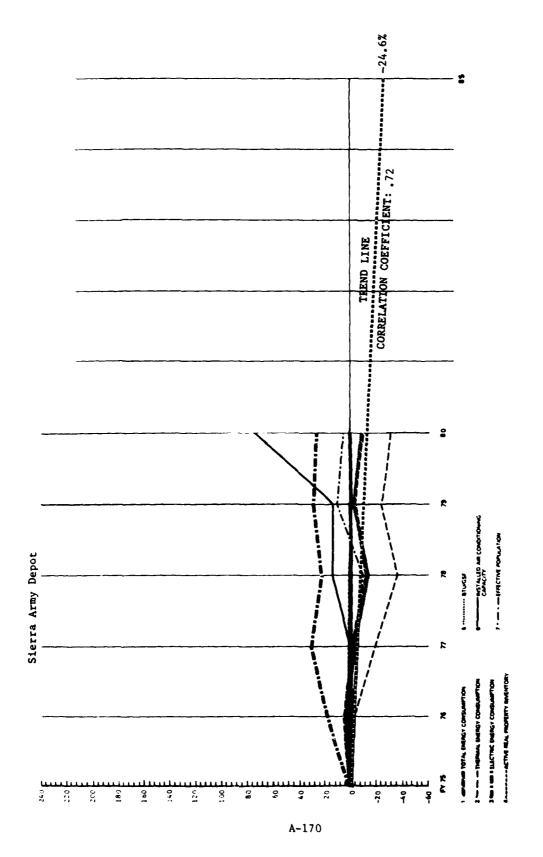
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1990年 日 1990年 東京大学の高級の東京教育の東京教育を表示して、東京教育、大学の主義教育の大学の主義教育の表示を表現していません。

LMATIC REGION 4 HDD 2,806 CDD 1,259
MACOM PARCOT
SHARPE ARY DEPOT. CA.
ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION
US Army

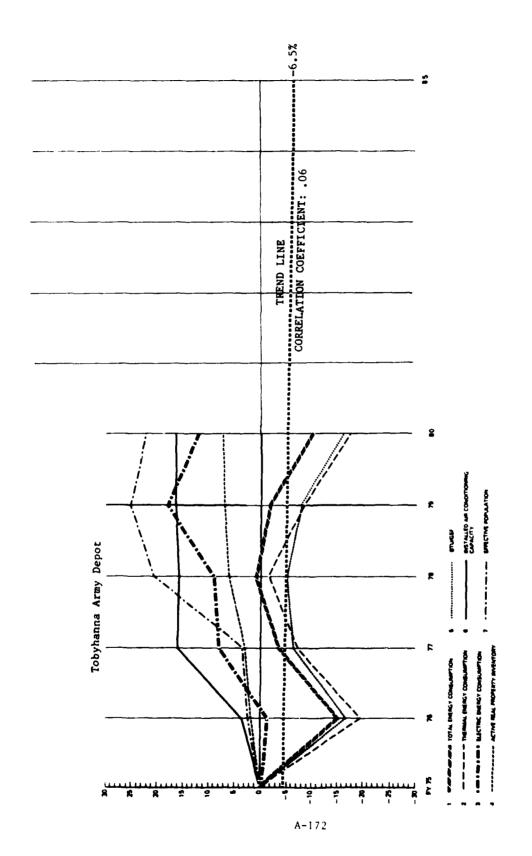
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Land State of the	73		" "		R	2
Energy Consumonar is PD	133,743	135,862 1 1,61	ŀ	125,585 1- 6,11	126,504 1- 5,4 1	118 353
	40.123	40.759 1 1.61	12.936 -17.91	12 653 1-18 61	1	4
UTBM	L	95.103 1 1.61	89.048	937	1	
MOM		123 1 0.81	114 6.6 1	129 1 5.73		25.
	-	3	1 617 (-16 6)	1 511		
JAON		-			2007	785
•	1	1	1	1	1	1.765
Effective Population*** Is 70		1 - 2	453 (-11.3.1)	-	643 1-14.6 1	177
2		10.4 1 6.01	70.5 1 6.2 1	15.6 1 13.81	74.9 1 12.8 1	67.1
	177.6	184.1 1 3.61	186.R 1 5.2 1	196.2 (10.51	196.7 (10.8)	2
-	767.4	773.2 1 0,81	781.1 (1.8)	720,4 1- 6,11	769.6 1 0.3 1	-
_	103	4:0 1 35,31	418 1 34,01	418 1 38.0	۲	
	309.0	232.0 1-24.91	213.0 1-31.1 11	222.3 1-28.01	~	107.8
531	3.164	3,156 (0,1)	3,128 (- 1,1)	3,143 1-0,71	3.076 1- 2.81	
KSFCA	4.20	4.29 (2.1)	4.79 1 14.0 1	4.91 1 16.91	6.78 (13.9)	6
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♥FY 77 ECIP - Insulation and Heating System Improvements - \$186,998 - Completed (estimated) June 1978



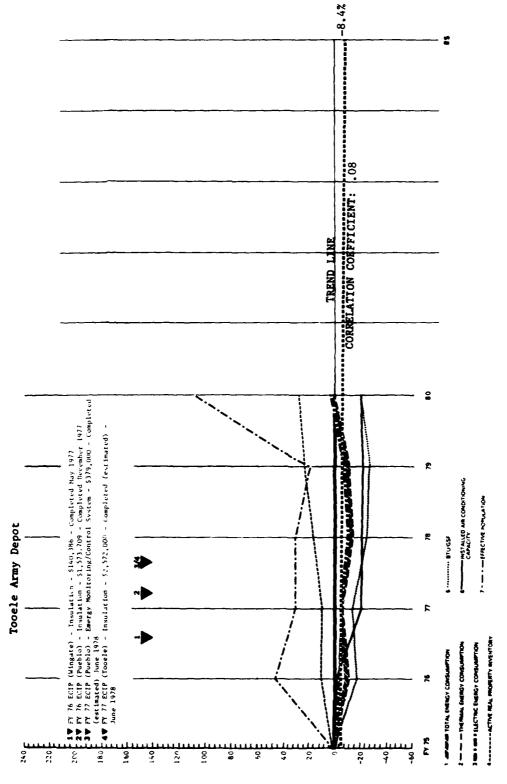
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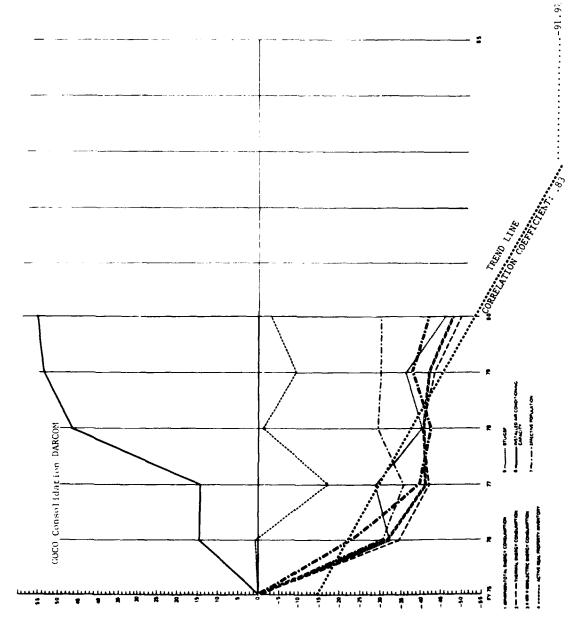
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•	NGS	53 159	41.932	1-21.11	45.214	1-14.91	39,543	1-25,61	37,825	1-28,81	42,081	1-20.8
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Data includes Pueblo AD, Ft Wingate AD, Umaiilla AD and Navajoe AD which are sub-activities of Tooele AD. I♥FY 76 ECIP (Wingate) - Insulation - \$140,386 - Completed May 1977

Z♥ FY 76 ECIP (Pueblo) - Insulation - 51,573,709 - Completed December 1977

S♥ 77 ECIP (Pueblo) - Energy Monitoring/Control System - \$379,000 - Completed (estimated) June 1978

S♥ 77 77 ECIP (Tooele) - Insulation - \$2,572,000 - Completed (estimated) June 1978



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1 Energy Consumption to PO	UNITERY	£	*		=		£		Q.		8		
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2	1000		870	- 2.5	817	- 51 6 -	967	1-25.71	818	1-23.2.1	726	1-13,8	3,81
	1	15	1	1-1161	20 398		22.651	1-29.91	22.371	1-30.8	. 22	î -	6
£	100	187	254	1.7 %	21.235	ļ	23.447	1.29.81	23.189	1-30.5		1-11.3	î.
	a della	1~		1-30.61	7.636	1-35.51	8.346	1-29.51	8.275	(-30.1 7	792 8	4-30.	0.2
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	20	SR 302	١	15.0	48.070	ļ	57,582	1- 1.21	52,755	1. 9.51	56,375	1-3.3	3.3
16 Com Comments	1SCA	4.92	7.13	16.99	ف	30 1 28.0 1		90 1 40.21		38 1 29.7 1	9	82 (38.61
A Part In Comment of the Part	BYUCS	170.164	336,513	-32.31	353,399	(-28.9)	297,791	1-40.11	317,428	(-36,11	267,258		7.
To Breat In Comment of the Party	PTUGS	384,522	9	-34.91	270,786	1-29.61	232,358	1-39.61		1-37.5 1	199,979	Ĭ	0.
A PRINCES	SUNCE	ŧ.	86,317	-23.3		1-26.6	6.5	1-41.81	77.161	1-31.4		1-40.	
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		*PD & Pecart Denation from Bate Year	•	Served a B	Population Served is the just Resident is Non-Resident Population	es Resident Papel	•	******** Page to Page darent	+ 1/3 Non America				

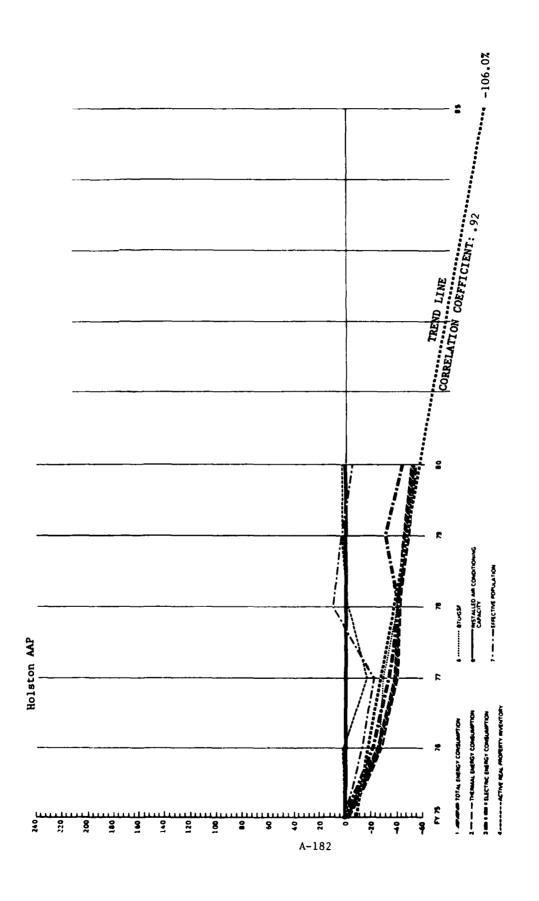
DATA FOR SCRANTON AAF WAS NOT REPORTED FOR FY 78, 79 AND 80. EMERCY CONSUMPTION DATA WAS OBTAINED FROM DEIS AND FY 77 DATA WAS CARRIED OVER FOR MISSIMC YEARS TO PROVIDE FOR MORE CONSISTENT COMPARISONS IN OTHER DATA FIELDS.

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	UNITSEY	R	R	£	ť	Ř	2
France Consumption to PD	CLERT	1.639.845	127,507 1-80,011	1 2.24 926 215	ξ. -	699	225,895 1 -86.2
2 Thurmail En Cons is PO	200	1.393.903	1354.731 (-81.4)	145_056 1-84,7 1	127,446 1-90.91	202	148,175 1 -89.4
3 Electrical En Come to PO	MB 10	245.982	1-7		57,25R 1-76,71	R4,467 1-66 1	77,720 1-68.4
4 Resident Population & PD	P.OP.		c	0 , 0	1 C -		0 1
5 Nor Resident Population Is PD	MONE	11.7	283 1-31.11	345 4-16,1	211 1-48.71		253 (- 38.4
8 Populamon Served** & PO	PEOPLE	117	111111111111111111111111111111111111111	345 (-16.1)	211 1-48.71	187 (-54.51	753 1-38.4
7 Effective Population*** to PO	3000	117	-	115 (-16,1)	16.87-1 02	62 1 -54.71	84 1 - 18
B En Consumption/Pop Served to PO	4500Ce	9 949 F	1,157.3 (-71,01)	1 0.83.0 1	875,4 1-78.11	L.	892.9 1-77.6
9 En Communiquentin Pay to PD	METUCAP	0,079,11	1- 1-	2,016,4 1-83,01	2,618.6 1-78.01	2,865.6 1 -59.41	2,689.2 1 -77.5
10 Electric En Consumption/Resident Population	METUCA	1	1				-
11 Installed Au Cond Capecity to PO	T04S	017	1 0 , 015	1 0 1 015	1 0 1 017	-	0 017
12 Elec Embay/Ton of As Cond to PD	MBTUTON	600.0	10.27 1-12.01	1.0.08-1-0.0.1	130.7 1-76.71	206.0 1- 65.73	189.6 1 -68.4
13 Ness Property Inventory (NPR & PD	35	4.060	4.048 1-0.31	1 5.84 1-63.4 1	4,054 1-0.11	16.8 1 106,4	5.299
14 MPM Merson Population	KSFCAP	19.62	43,064, 75, 11	11.291-55.21	15.36 1 16.53	Ě	51.181 72.7
15 Energy Consumption/GSF to PD	97.VCS	16 107	80,906 (-80,01	153,304 1-62,01	-	-	0.78-1 348.52
16 Thursd En Consumption/GSF to PO	BTUGSF	143.326	9	121.	-	-	0.06-1 735.56
17 Elegental En Companyamon/GSF & PD	#10.CS	58.587			14,124 (-76,7)	19,639 1 -67.61	2.07-1 670.81
18 FFT by Consport	2						
Times	151	11			11		11
Mantenance & Production	35	2.974	2.973	445	2,971	3,189	631
methon, Development & Teating	25.		,			,	
Secrept	35.2	518	518	294	767	295	285
Other Covered Storage	**	Not Available Separately Included Above	BASE	224	224	223	170
Nominal is Medical	35	-		11	11	11	
Admonstration	20	571	145	153	153	151	117
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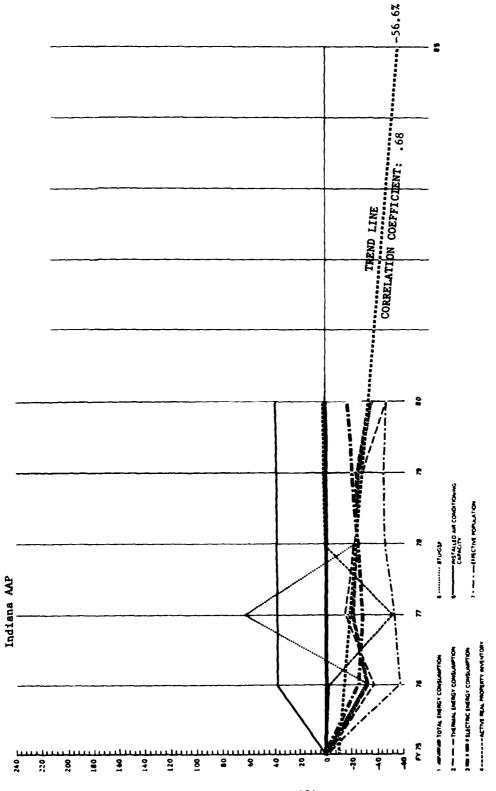
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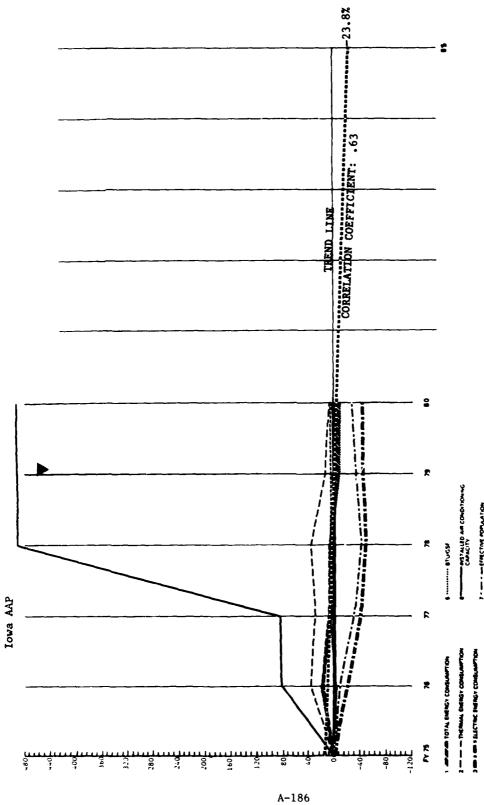
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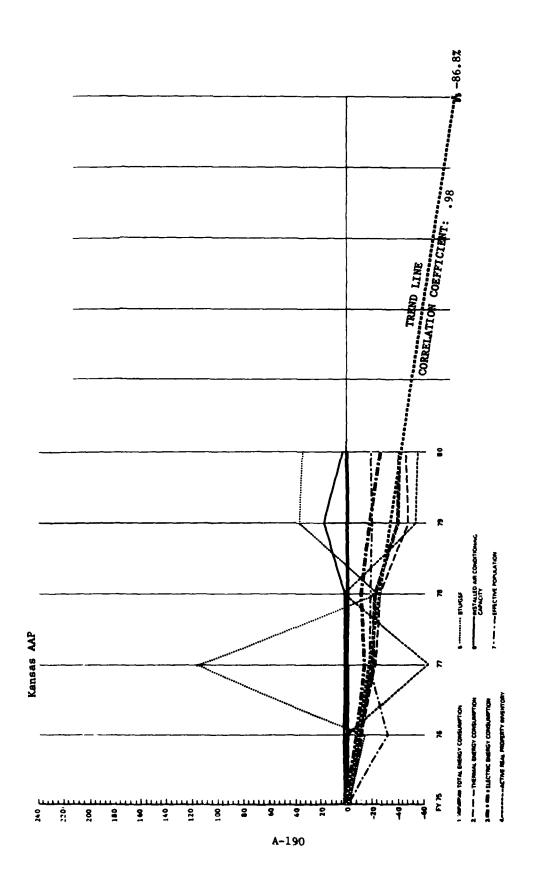
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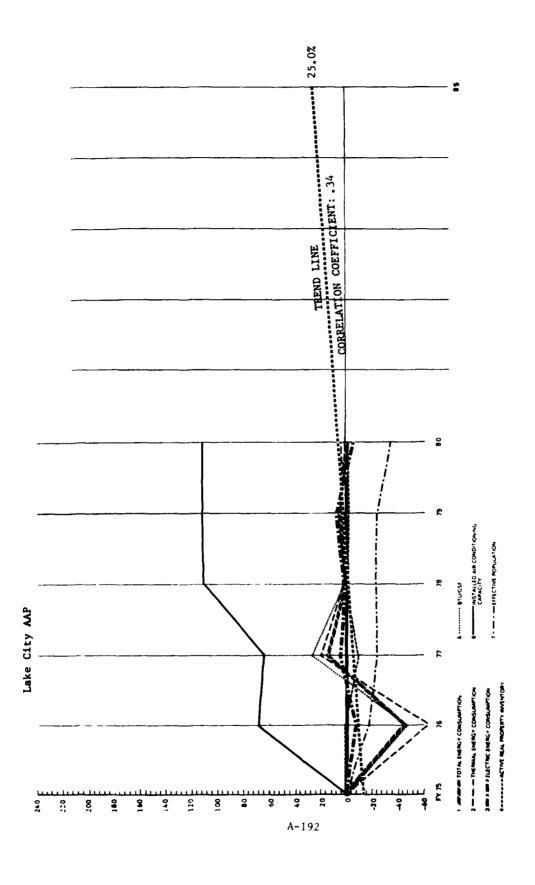
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	15				t			
•	1.54	1.276	1,273	1,276	1,326	61	1,239	
Emerance & Production	XSX	2	3		5			
merch, Development & Topping	K.S.	2 665	2.664	2,281	2,281	859	2,280	
	200	Not Available Separately Included Above	BASE.	387	391	1,814	161	
Jibrar Covered Storage	E S	- 12	12	12	12		61	
toques & Medical	25.	71.5	519	519	530	127	182	
4	15	17	16	16	16	_	16	
Bethefor Houseway	151	181	:78	178	178		85	
Community Fer these	#S#	142	131	127	127	112	571	
Family Houses	252	12	14	14	14	4.0	16	
Operations for days	TS.	237	237	238	238	7.9	230	
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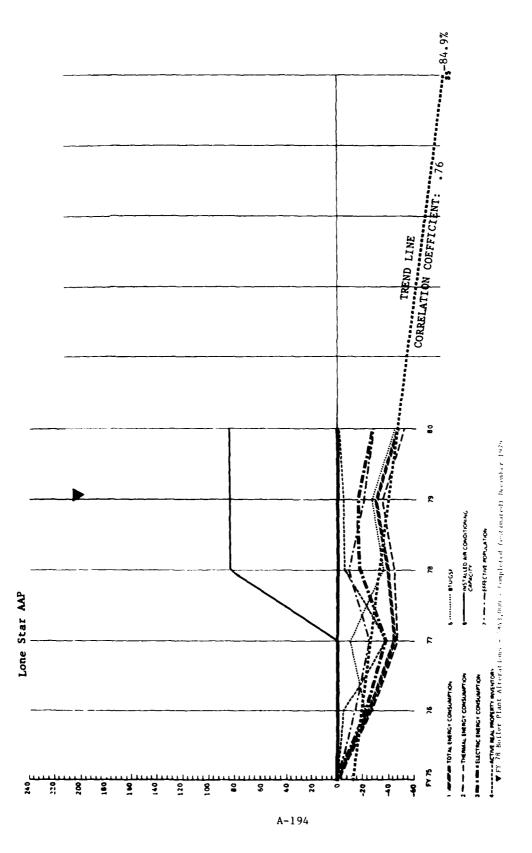
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1 Energy Contumption & PD 2 Thermal En Core to PD 9 Energy En Core to PD	CARTSEY	£	*		*	R	8	
wegy Consumption B PD wenter En Cons B PD menter at En Cons In PD	UTBET	345,070	115,577 1- 8.61	1	-	20%, 417 1-39.6	201.547	1-41.6
Number En Cons is 70	DE BAN	245,000	13.8 -1 6:03 565	18H 190 1-73.2 1	767	17,135 1 -48.11	126	1 - 7 - 1
Carried to Come to Management of the Company	MBTU	100,070	91,504 1 - 8.61	P44,548 1-15.5 1	88,897 1-11.21	(-		1.11.7
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Resident Population to PO	NO.	1.078	712 1-32,11	893 (-17,2)	877 (-18.6)	869 1 -19.41	861	-201
Non Resident Population Is PO	MOME	1,078	732 (-32.11	894 1-17.21	877 1-18.61	869 1 -19.41	861	-20.1
Properties Served" - B PO	FORE	359	244 1-32.01	29R (-17,01	292 (-18.71	1-		1-20.1
7 Effective Papulation*** Is PD	METUCAE	320.1	431.1 (34.7)	14.4 1- 4.61	10.7 - 1 - 2.01	279.8 1 -25.1		1-26.91
E En Consumption/Pop Sarved & PD	MBTUCAL	961.2	15.28 1 5.195.1	415.2 1- 4.8 1	10.5 -1 7.29	718.7 1 -25.21	L	1-26.9
9 fin Consumption (11 Pag to PD	MOTUCA	-	-	-	-			-
10 Electric En Consumption/President Population	TONS	850	860 (1.2)	860 1 1.21	860 (1.2)	1,001 17.81	877	-
11 Immated As Cand Capacity to PO	METUTON	117.7	106.4 1 - 9.61	1 5.41-1 1.80	103.4 1-12.21	7	82.5	1-29 9
12 Elec Emergy/Ton of As Cond Is PO	20	2,161	2,168 (0,31	111.14-1 801	19:1 1 60:16	953 1 -55.9	953	1-55.9
13 Red Property Inventory (RP) & PO	KSICA	5.02	8.891 47.61	1 5.58-189.5	7.54 (25.3)	Ē	2.3	1 -44.8
1 to Markingtone Population	Brucse	189,481	145,541 1 - 8.91	341,77 (114,0)		218,696 1 37.0	211,487	32.4
Ingr Committeen/GSF to PID	BTUNGS#	113,373	103,374 1 - 8.91	235,827		133,405 1 17.74	135	19.61
18 Thermal En Consumparon/GSF fo PD		46.307	42,207 1 - 8,91	056 501	40,377	85,291 (84.2)	75.82	0.75
17 Electrical En ConsumpsonvGSF & PO		****						
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Repair Ch. Development is Tating	KS.	1.065	1.070	911	926	297	297	
Storage	NS.	Not Available Separately Included Above	BASE	ιστ	U6	158	85.	
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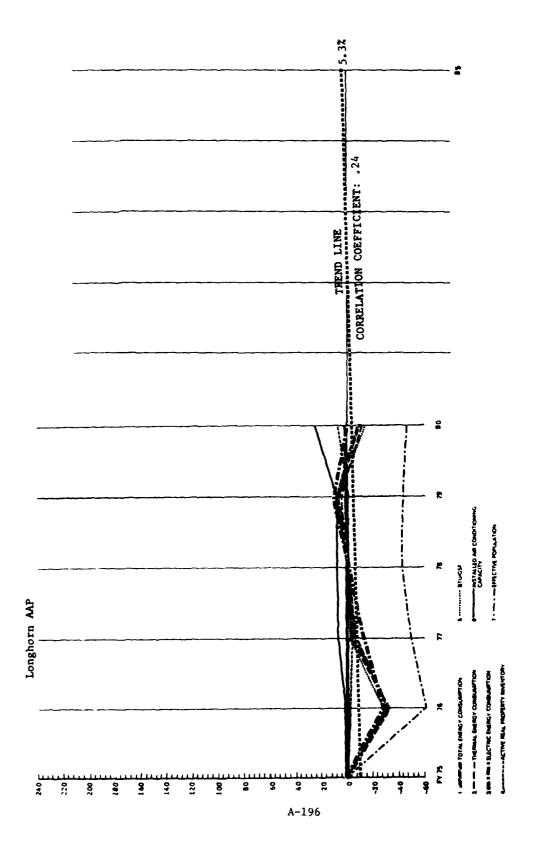
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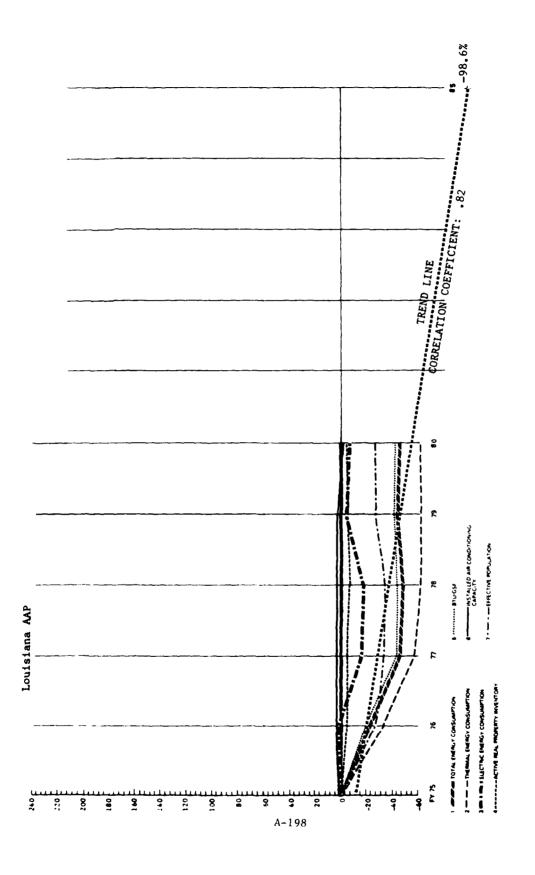
▼FY 78 Boiler Plant Alterations - \$843,000 - Completed (estimated) December 1979



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CLIMATIC REGION 7 HDD2,370 CDD 2,459 U.S. ALMY ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION LOSGICES, AND TAN

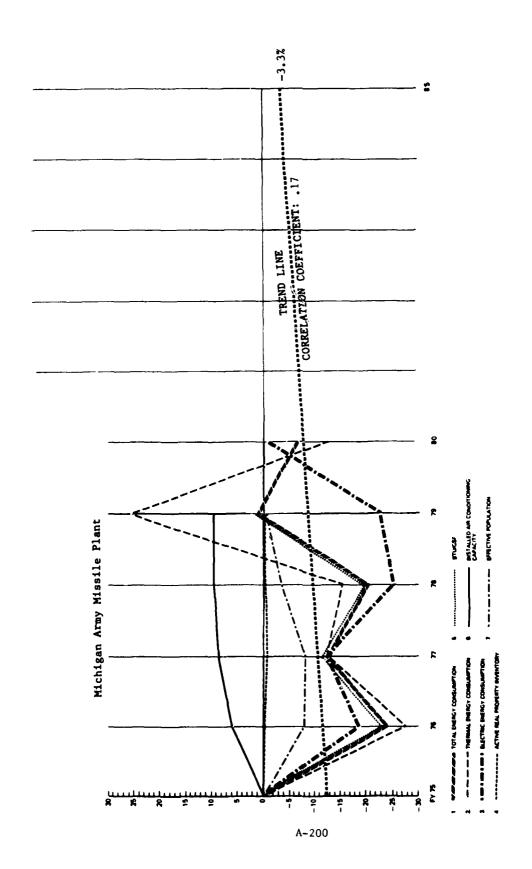
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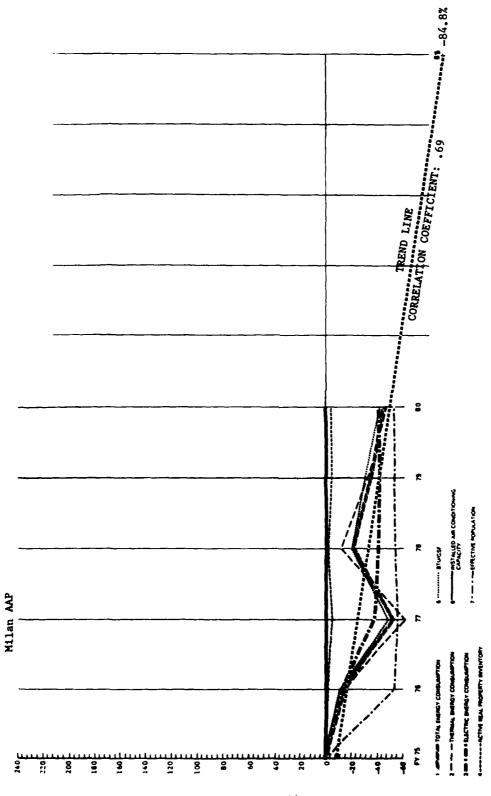
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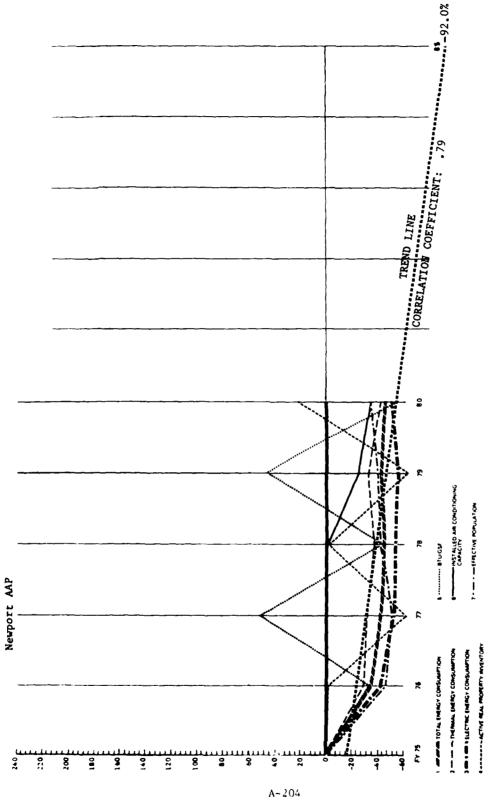
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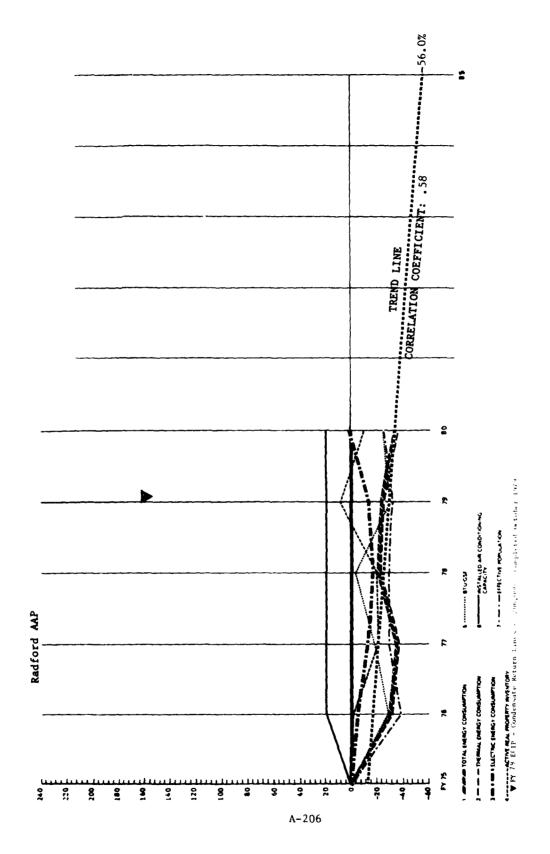
NON 4 HOD 3.685 CDD 1.632
CLIMATIC REGION
MACOM BCOH
INSTALLATION HILAN AAP, IN
ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION _
US Army

1 Energy Consumption 6 PD					1	1	1			1		7
1 Energy Consumption to PD	CARTSAY	¢	R		*		R		R		8	
	Ment		770 755	13.8	298,208	L 53.61	504,012	1- 21.5	408.935	1. 36. 1	350,226	-
2 Thermal En Core is PO	Sest C	423,975	365,670	1-13.8	161.033	€ 62.01	372,969	1- 12.0	282.166	(- 33.6)	222.150	17.7
3 Electrical En Cons & PD	MBTC	218,410	188,374	(- 13.8	137,175	C 37.21	131.043	0.04 -		1- 42.0	128,076	-
4 Resident Providents to PO	NO.	135	111	17.8	101	L 25.21	81	0.04 -1	88	1- 34.8	707	1-20
5 Non Petudent Population & PD	ROPE	3,281	1,395	1- 57.9	1,316	L 59.91	1.417	1- 56.8	1,398	14.72 -1	1,358	35-
6 Population Savand** to PO	100		1.506	1- 55.9	1171	L 58.51	1.498	1- 56.1	1.486	1- 56.9	1,465	15-1
7 Effective Population**** & PD	A COPIL	1,229	576	4- 53.1	240	11.95 7	553	1- 55.0	554	6.45 -1	260	1-54
8 En ContumptionPap Saved to PD	MBTUCA		9.798	195.61	210.5	11.91	336.5	18.9	275.2	1.66.3	239.1	-
9 for Contumption (Fit Pep to 70	MBTUCAP	522.7	6.196	1 84.0	557.3	17.5	911.4	4 74.4	738.1	6.12	625.4	61
10 Electric En Consumption/Remajore Population	METUCAL	1,617.9	1.69,1	6 7	1,358,2	11.11	1,617,8	0.0	1.440.6	11.0	1197.0	1-26
11 Inspelled As Cond Capacity & PD	TOMS			-	,	-		-	840	-	766	
12 Elec Engageritors of Ast Cond to PD	MOTUTON		-	-		,	-	1 7	150.9	-	128.8	-
13 Red Franch Indiana della di 70	3	3,684	3,668	4.0 -1	3,466	16.5 7	3,663	0.0 -	3.476	1- 5.6	3,520	-
14 MPG/Magnes Pagnésses	KSFICA	3.00	6.37	1 112.4	6.42	1114,11	6,62	120.9	6.27	1.09	6.29	109
16 Engage ConsumentantGM to PD	STUGS	174, 372	151,048	1- 13.4	86,038	L 50.71	137,595	1- 21.11	117,645	1- 32.9	967.66	1-42.
16 Thermal En Cardangagord SF & PD	BTUGSF	980,511	269 66	1-13.4	197 97	19.65 7	101,821	6-11.9	81,175	1- 29.9	63,111	1-45
17 Person for Communication for PO	STUGS!		51, 356	13.4	39.577	L 33.21	35,774	1- 39.7	36.470	1- 38.4		- 18
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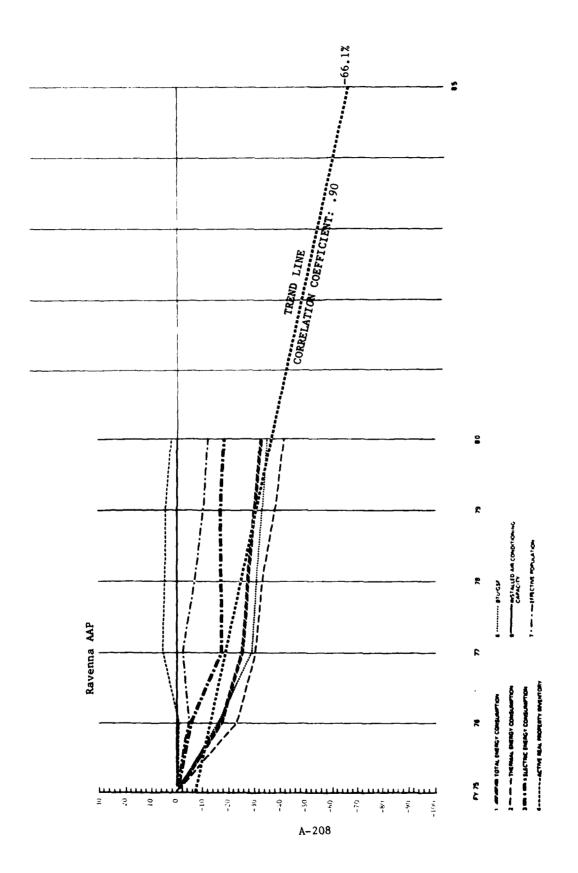


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BTUGSF 207_6		135,477	1- 34.7	313,891	(51.2)	156,211	6- 77 -1		1 45.29
BTUCSF		81,287	1- 28,8	168,002	16.57	72,042	6.9(-1	195,970	1 71.6
BTUCS		54.190	1- 42.0	113,000	(21.0	42,309	(- 54.)	105,521	13.0
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ACSF Assessed	BASE	y		g		1		8	

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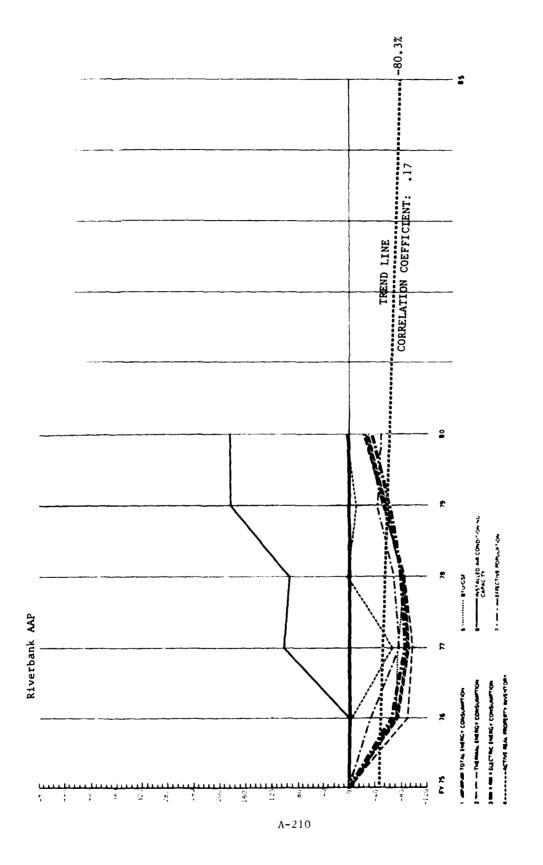


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UTBM	298 619		1.5.7	254,552	1-14.8	245.036	1-17.61	254.864	19.41-1	299.234
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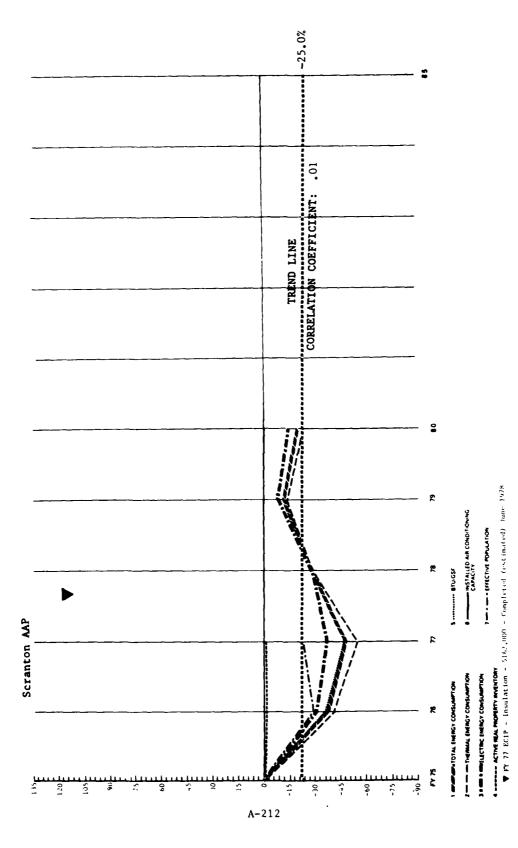
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En Consumption Toward 8 70	MOTUCAP	809 7	706.7 1-12.71	617.7 1-23.7 1	610,8 1-22,11	627, 5 1-22, 51	Н	7.6
S En Consumptioners Pag 8 PO	METUCA	355		10 HZ-1 5 155	11,95-1 2,562	580,5 1-21,11	9.88.6	7.07-
10 ENCINE EN LONGINGMONTENDEN FOOLARION	1005		-	-	-		,	
11 bresided As Cond Cabacay B PU	METUTOR		-	~	1	1	٠	
12 Elec EngayTon of As Cond & PO	151	0.78 -7	4,319	10.2 1 155.5	15.2 1 45.51	4,527 (4,31	757.7	7.
13 Marie Programy Investors Wars II PO	STATE	77.72	•	19.55 1 7.61	30,84 (12,3.	31,88 1 16.11	31.96	16.1
14 APTERIOR PROGRAMME	1000	20 277	24,549 1-16,71	11.05-1 100.05	19 01-1 157 02	19,681 1-31,21	16, 170	15.75-
15 Energy Commission/USe B 10	#SOACE	18 866	14,184 1-23,21	15,541 1,2,51	17,047 1-14,011	11,218 1-40,51	10,865	-62.4
16 Therese in London control is NO	20070		1.5.5	8,350 1-21,21	H.386 1-21.01		8,303	6-19.9
17 Electrical En Communication (SSF Ib PO	352							Š
18 Mar by Catagory	25							
, marine	3	434	1 611	1.571	1.572	1.577	1,559	
Assessments & Production	35	4	ç	9	4	Ą	9	
Managerch Development in Teaming	2	2 166	1.154	1.412	1.412	1,412	202,1	
, test	252	No. Augusta Superport Inches Above		1.193	1.180	1.172	1,168	
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US Army

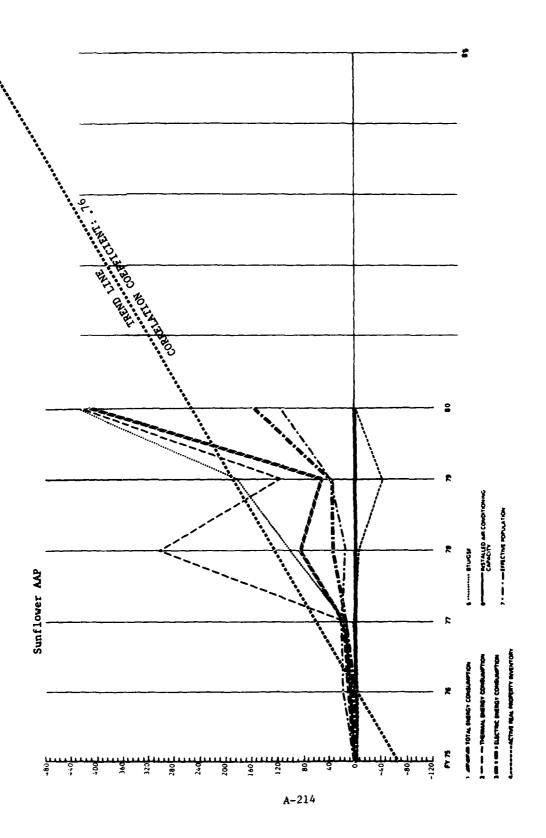
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US Army

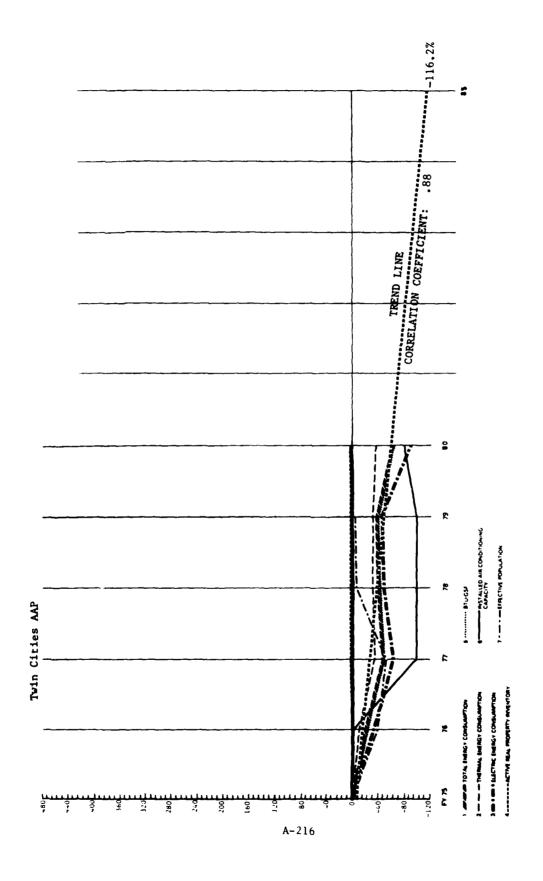
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Installation did not submit reports for FY78 - FY79 or FY80.
FY 77 ECIP - Insulation - \$162,000 - Completed (estimated) June 1978



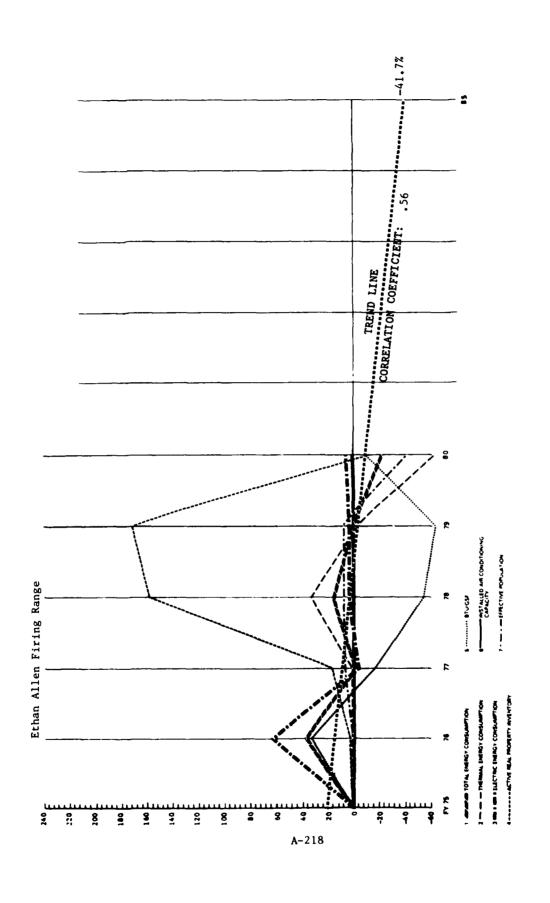
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- INSTALLATION
ANALYSIS OF ENERGY CONSUMPTION
US Army A

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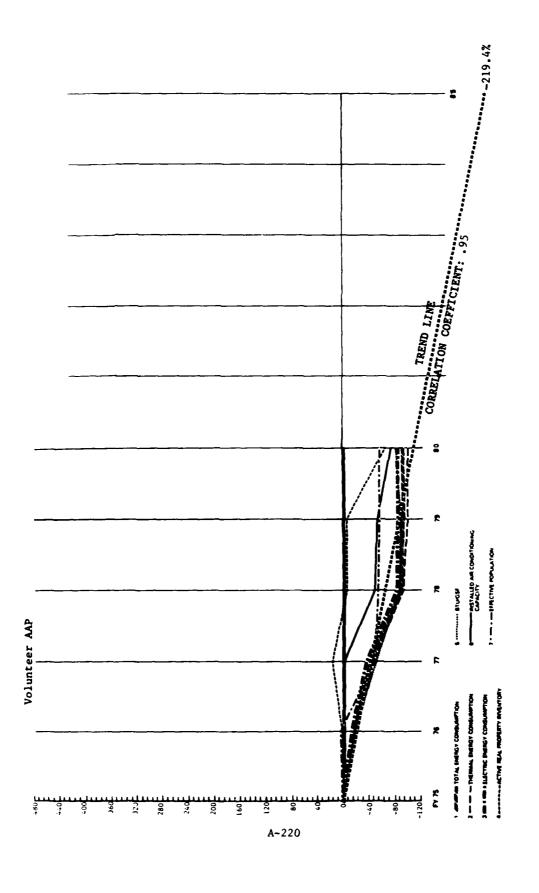
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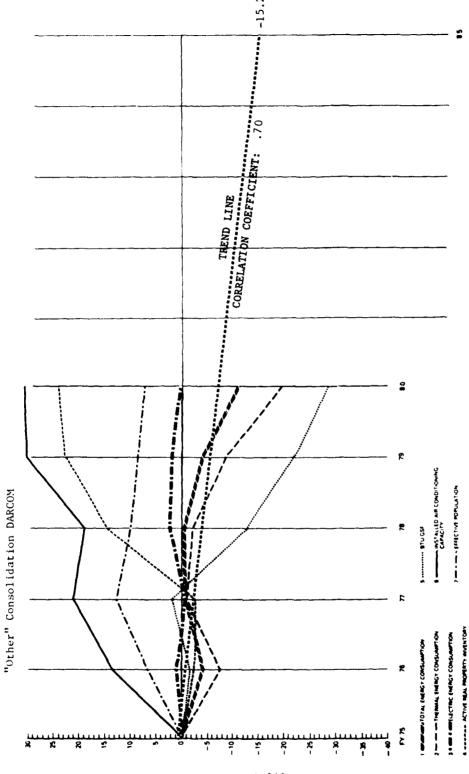
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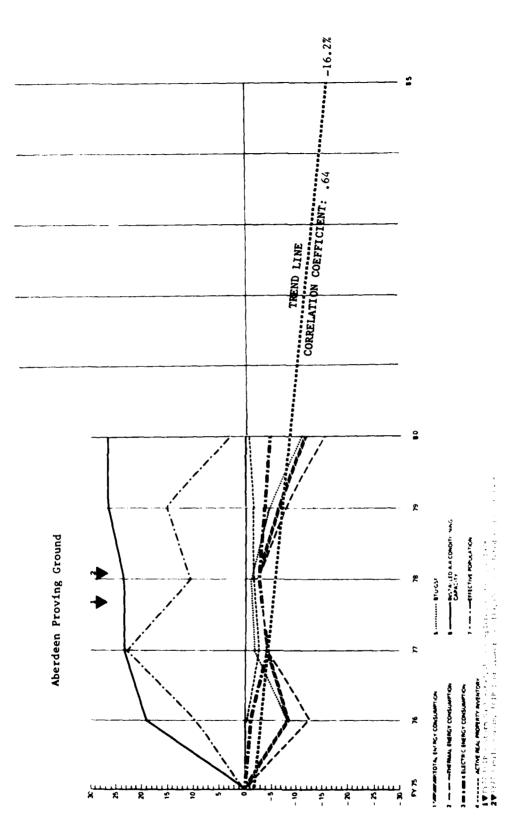
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8 Population Served** 6 PD	100	102 41	-	-	19,840 1 17,01	89,846 17.0	L
* Effective Population*** Is P.D.	300	110,001	- 1.2	54.8 - 45.5 CTT	123,540 (13,34)	160,459 1 29,31	
8 En Consumption/Pop Served & PD	100	7.804	3. T	16.67	63,647 (10.1)	81,027 6 40.20	7
9 En Consumption Eff Pag de PD	MOTUCA		10.11 10.12	The second second	171.6 1-12.11	144.9 1 -25.81	5.61- 1 5.541
10 Electric En Consumption/Resident Provention	-	- K-1	1111111111111	18.77 m.35	133.0 1- 9,51	15.11 1 - 11.51	
11 Installed Av Cond Captersy Is PD	_				14.2 -1 2.41	181.3 4 - 15.71	
12 Elec Engloy/Ton of Air Cond to PD	TOMS	80,701	7.5.21 - 315.16	97.623	10,81 1 54.70	105,147 1 30.30	105
13 Real Property Inventory (RPIs to PD	MOTUTON	+	1.67.1 -11.01	1.81.4.4.3	11,21-1 3,6	88.0 1 - 21.81	
14 MPM Hecting Population	2	F. 28.	66.54	3.0	75,500 1 14.11	80,994 1 22.71	1.24.1
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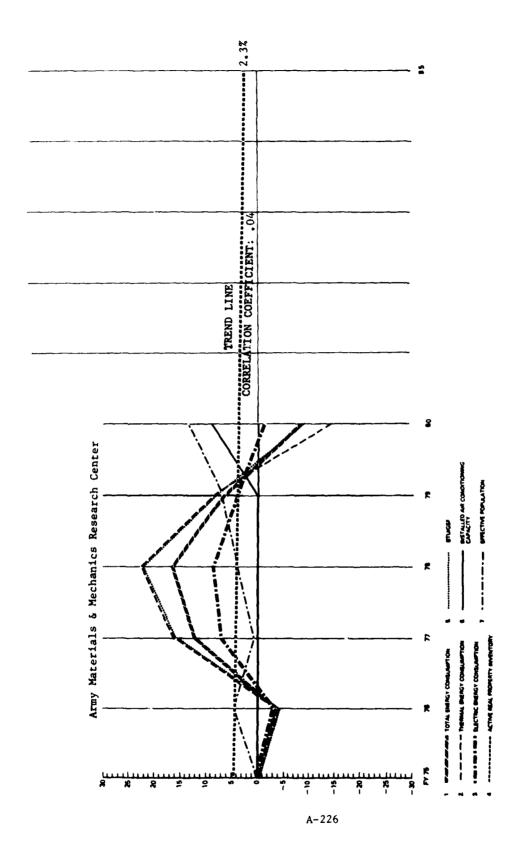
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1♥FY 77 ECIP - Storm Sash - \$642,510 - Completed (estimated) June 1974

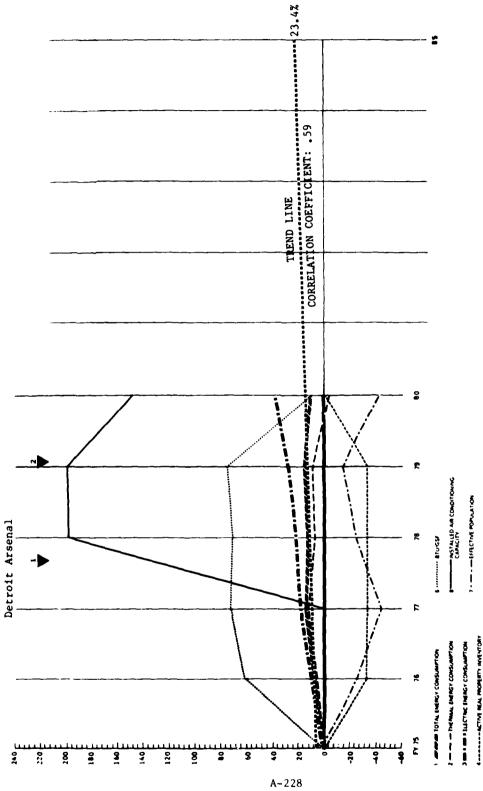
2♥FY 77 Family Housing ECIP Improvements - \$119,070 - Completed (estimated) Ortoher 1998

REMARKS



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		IMA I K. MEGNON
	PARCOM	
		1
ON WATERIALS & MECHANICS	RESTARCH CENTER, NA	MACOM
A.R.		INSTALLATION
		ANALYSIS OF ENERGY CONSUMPTION
		Army

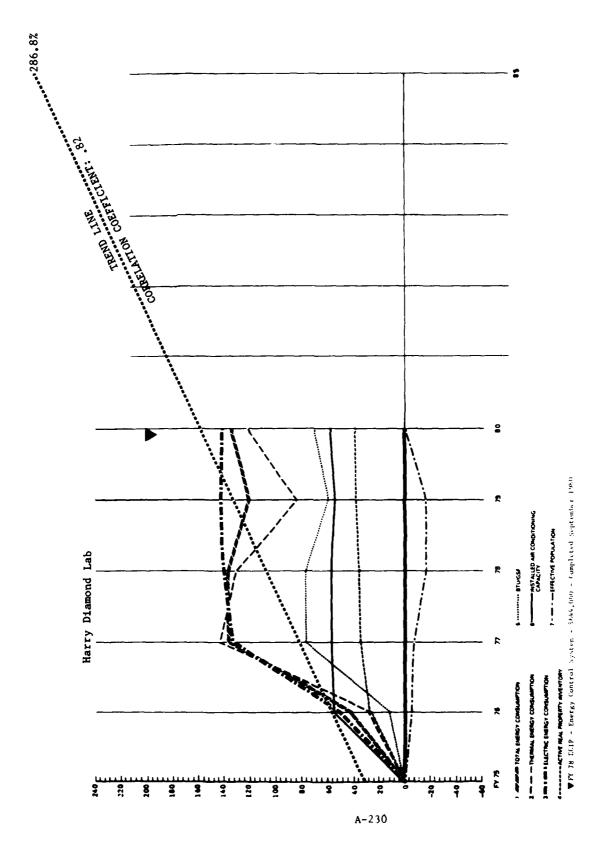
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13	Meru	189 919	183.120	1.9.6	213,150	12.21	221,582	116.71	202,420	1979	123.740	1 -8.5 1
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2 Thermal En Cons & PTO	2	277 00		-	87 701	-	H8 632	1 5 8	85.016	4.1	80,490	1-1.2
3 Electrical En Coms to Pto	3	ŧ	•	138.5.1		1.46.21		1 76.91	25	4 92,31	28	115.4
4 Readon Population 6 PO	Š	613	759	10.	62.2	1.61	629	1 5 0 -1	64.5	1 2.11	679	1 7.4 1
5 Non Readons Population Is PD	17.	577	644	- 7.1	177	19.0 - 1	652	- 1.1.	670	19.6	101	1 9.6 1
	3	222	235	16.9	226	16.0	233	10.7	240	1.1.1	757	113.5 1
7 Ellective Population**** to PD	ATT WE AR	7 766	273.7	10/1	317.5	12.91	1.9.F	1 15.4 1	302.1	1 2.61	245.7	416.5 I
8		87.78	7.67		943.1	11.21	951.0	1 12.2 1	7.578	15.0 -1	0789	419.3
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	35041	277 254	367, 328	19:1	311.167	12.21	323,477	1 16.7 1	295,503	19.9	253,635	1-8.5
2 3	BTUGSF	158 035	152 378	1-1.61	183,590	1 16.21	194.087	(22.8 1	171,393	8,41	135,839	414.0 1
	1 MGSG	119 219	116 950		127 578	т.	129,389	18.5	124.111		967,711	1-1.2
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1 V P 7 ECH - Insulari and office to any let of Colimated Hume Per P P F CH - Insulari and Albaham - Completed Colimated Hume Per P P P B ECH - Energy Monitoring and Control viets - Side and Completed (estimated) Because 1979

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Medical 132.4 Medical 511.2 Medical 559.2 Tools 2.117 2.	1-28	1, 361	1-64.41	1.848	1-24.51	2.065	19.61	
Magnucae 511.2 Magnucae 459.7 TONS 2.117 2	1 6.31	351.9	17.15	255.3	1 9.81	232.7	0.11	-
MeTucker 459.7	-	1.055.2	- 106.42	766.1	16.67	698.1	19.98	951
7 117 2	~		-	,	-	,	-	
	-	2117	-	6.292	1197.21	6.310	1 398.04	5.24
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150	_	1.308	1-33.41	1,308	1-33.41	1,308	1 -33.41	1.96
KSKA	72 (-10.91	96.	15.51	11.	1-11.91	69.	(-21.2)	
615.875	-	1.097.906	17.27	1,082,393	1 70.21	1,102,086	13.31	6.199
BTUGSF	1 62.81	691.681	10.07	660,261	1 62.21	661,252	4 62.59	384.58
BTUGSF 228 914	1 62.81	406.225		422,133	1 7 78	440,834	1 92.61	1
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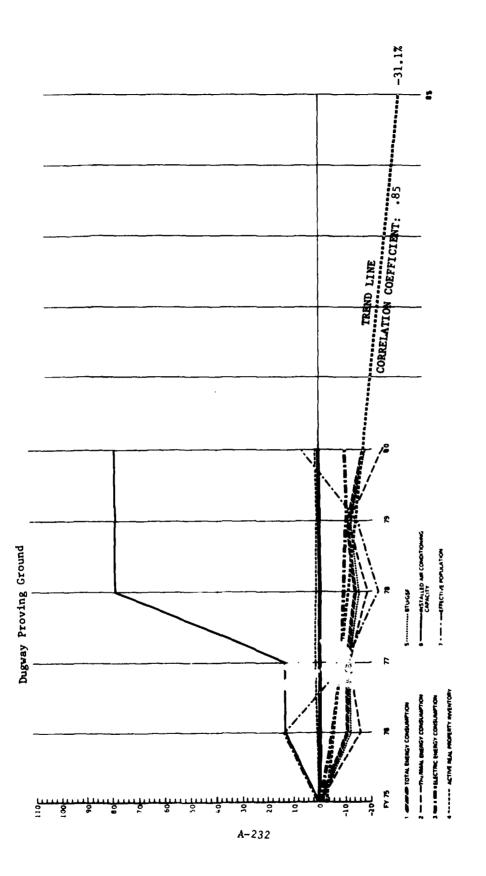
A-229



1,161
EGION T HODY, 483 COD
CLIMATIC
MACOM DARCOM
TAPRY DIAMOND LAB, ND
INSTALLATION
ANALYSIS OF ENERGY CONSUMPTION
US Army

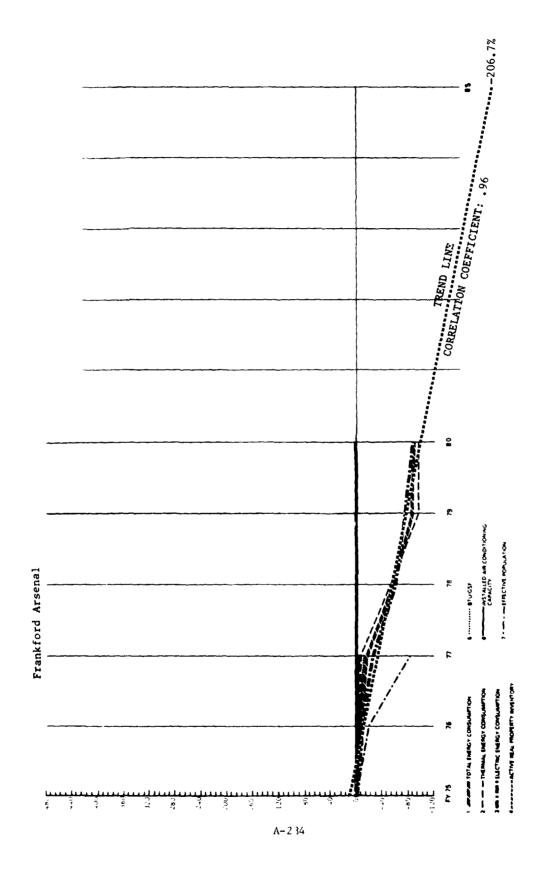
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5				-	,						2	
Engy Continuous & PD	2	727,261	239,682	11.54	102 247	1134.511	347,165	1116.51	176,017	110.0211	455,290	1133.1
Themas En Core & PO	2	70,353	89.599	(27.2)	171.016	1143.1	151.758	16.621	129,283	1 84.01	155.975	[7]
Becarcular Come 6 PO	2	125, 071	140,143	1 52.17	291 187	132.83	100,407	1140.21	301,660	1141.01	299, 115	2.2
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ę	2	1.436	1.370	1 = 4.61	1,330	1 7 7 -1	1.182	17.71	1,191	1-17.11	1.397	1
# Poutstan Serves" 6 PD	2	1.436	1.376	19.4	1.330	1 4.7 -1	1.182	1.7.71	1,191	1-17.11	1.397	-
	2	674	457	1 - 4,61	277	1-7.51	397	117.71	76%	1-17.11	746	 -
2	33	1.94.1	204.1	10.05	347.5	1155,411	391.0	(187.3)	361.8	1165.91	125.9	=======================================
	METUCAP	401.9	612.0	1 50.00	1.04.1	1155.71	0.173.0	1187.51	1,085.5	1166.011	977.0] <u>=</u>
-	3		,	-	}	-	,	-		-	,	-
_	2	3.043	4.729	17:55	.755	1 56.31	4.755	1 56.31	4,705	1 54.6 1	4.765	, -
	200	41.1	70,2	1 = 2.21	61.2	1 49.01	63.2	1 53.71	1.79	1 26.01	62.8	25
		559	23	1 27.51	672	1 34,01	751	1 34.31	771	1 37.91	172	≅
	3	1.17	1.56	1,33.71	1.69	16.44	1.90	1 63.31	1.92	1 99 1	7.66	177.
2	BTUCKE	349,596	392,261	(12.2)	617,093	1 76.51	615,399	10.97 1	558,940	1 6.65 1	589.754	-
8	3	125,855	125, 524	1 - 0.21	228,326	1 81.41	215,390	11.11	167,682	13.21	207.040	9
	BTUGS	223.740	256.736	19,21	388,768	13.71	400,009	1 78.81	391,258	16761	387 714	-
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Operational But dings		18	25		25		25		25		25	
The second secon	ĺ	A										

▼FY 18 ECIP - Energy Control System - \$644,000 - Completed September 1980



	CMTSO	R		2	ę	R	8
	2784	276 035	424 168 1-10.97	1	409,104 1-14,11	421,981 1-11.41	390.691 1-17.
treety Consumption is no	MeTU.	252 290	212 084 1-15.97	222.435 111.8 1	204, 552 1-18.91	223,650 1-11.41	189,825 1-24
2 Themse to Lone & PD	MeTu	111 116	-	}	204, 552 1 - 8,61	198,331 1-11,41	200,866 1-10
	ROPLE	, 70/.	197 1 3191	574	1.177 (-34.41)	1,347 1 -24.91	1,898
	FONE	916	9/	}	19.69 1 93.61	19.66 1 93.61	567 1 9.
2	ROPLE	2 310	-]	2,176 1-5,81	2,346 (1.6)	2.465
	FORE	1 966	2 240 1 13.91	I	1,510 (-23,2)	1,680 1-14.51	2087 4 6.
	MBTUCAP		148.9 (-27.81	٦,	188.0 (- 8.8)	179.9 1 -12.71	158.5 1-23.
2	METUCAL		189.4 1-21.81	241,9 1- 0,1 1	270.9 1 11.91	251.2 (3.7)	187.2 1-22
9 En Contacyphone 77 Pap 8 PD	METUCAP		109.5 1-12.21	130,4 1 4,61	173,8 1 39,41	147.2 (18.1)	105.8 4-15
10 Electric En Consumption/Members Population	TOWS		516 13.21	516 1 13,2 1	17.67 1 818	818 1 79.41	818 1 79
1 Installed As Cond Capacity is PU	METUTON		411.0 1-16.21	397.9 1-18.9 1	250,1 1-49,01	.5 (=5	245.6 1-50
12 Elec Energy/Ton of As Cand Ib PD	352	-	1.949 1 0.51	1.943 1.1.2 1	1,967 1.41	1,945 1 0.31	1,945 1 0.
13 feet Property Inventory WIPS Is PO	KSFCAP	66	.87 ! -11.8 !	1,11,12,6 1	1, 30 1 32,11	1.161 17.41	0.93 1 -5.
A MPSEMENT POPULATION	BTUNGSF	505 576	217.634 1-12.31	217,911 (-11,2)	207,984 1-15.31	216,957 1 -11.64	200.869 1-18
Energy ContactingstoricGSF & PO	BTUGSF		108.817 '-16.4'	113,314 1,12,91	(-2	114,987 (-11.64	97,596 1-25.
18 Thermat En ConsumerandSS & PO	BTWGS	Ì	_	104.598 4- 9.4 1	103,992 1 - 9,91	101,970 1-11,601	103.273 1-10.
17 Bactercal En Commemperon/GSF to PO	¥S¥						
	KSF		14	1.5	14	3	4
	#S#	671	149	149	149	156	158
Agentonance & Production	KSF	142	192	179	179	163	156
Nembers, Development & Testing	KST	155	162	21	21	21	21
	#SE	Not Aveilable Septementy Included Above		141	707	149	149
Date: Corest Simuge	25	48	86	J6	90	44	44
trapes 5 Medical	#SE	174	174	192	197	201	201
	KSF	747	242	247	297	276	276
schelo Housing	#S#	192	192	194	194	170	170
Community Fix dates	¥SE	900	1 666	666	999	660	660
	#S#	74	34	34	34	55	73
Operatoral Bu drugs	KSF		1.1	3.6	43	36	19
		2000					

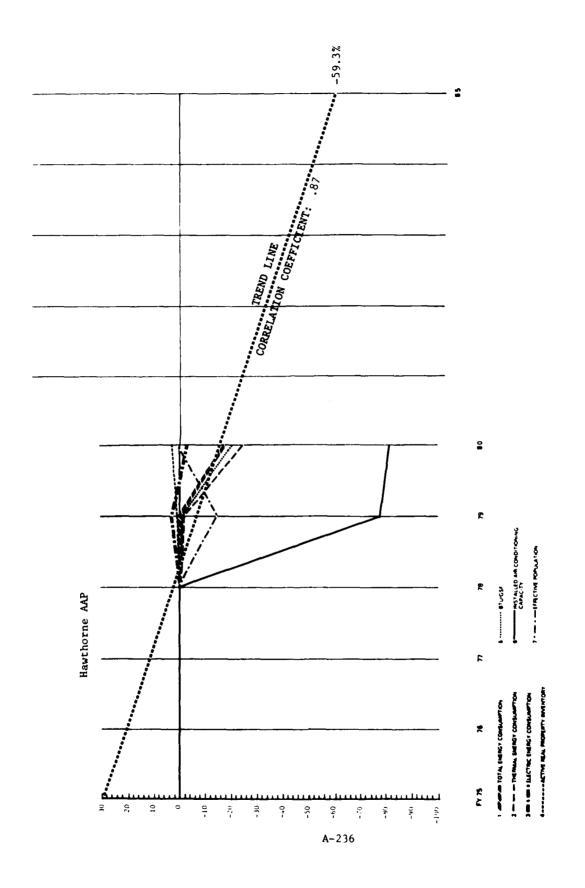
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CLIMATIC REGION 3 HOD 4,865 CDD 1,104 U.S. ALMY - ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION - EPAINEORD, ARSEMAL, DA

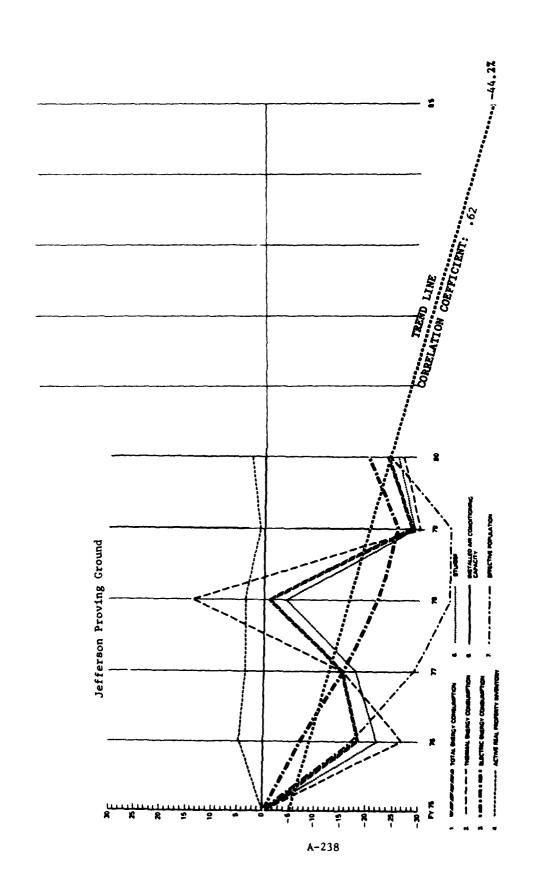
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	CHRTSAN	£		2	2	R	8	
1 Energy Contumption fs PO	100	844, 502	280.225 1 = 7.61	707-486 (-16.2)	349,090 1-58,71	1 16- 1 760.94	59,588	16.26-1
	ULBE		, ,	466.941 '- 7.8 '	226.909 1 -55.21	5.327 1 -99 1	22.561	16.86-1
	J. 6		-	240.545 1-28.81	-	1 62- 1 197.02	37.027	10.68-1
•	ROPLE		11 65 1 11	[7		-
8	FORE	E 1	2 656 1-20 1	543 1-83.7	4	1		-
	FORE		2 667 1 -20 41	17.58-1 542	()	1		-
£	#00F		896 1-21.11	183 (-83.9)	1	1		-
8	METUCAP	252.0	792.5 1 16.11	1.294.1 4415.1	1	-		-
	WETUCAP		870.8 ' 17.0'	3.866.0 (419.6)	1	1		-
Proposition of the	METUCAP	12	28 171 8 1 126 81	120.272.5 (861.3)	1	1		[-
	COMES	!	2 202 1 13 1	7 522 1- 2.31	-	-		F -
	METUTON		19.5 - 1. 5.05	32.0 1-27.1	()	()		-
	155	2 60%	2.587 ' - 0.71	2.479 1-4.81	-	1		-
	KSICAP	2.29	2.89 1 25.81	13.55'490.4"	7	1		-
845	BTUGSF	324 310	10.1 - 1 595 101	285.392 1-12.01		1		-
8	PTUCSF	194 586	180-957 ' - 7-01	188,359 1- 3,21	-	-		-
	TUCS	129.724	120 618 1 2.01	97 033 1-25.21	1			-
	KSF						*****	
		α	32	32				
	KSF	1.052	1.052	1.049				
_	KSF	577	57.7	599				
Constitution of control	KSF	196	195	15				
	35	Not Available Septiments Included Above	HASK BASK	180				
•	KSF	9	9	9				
•	KSF	975	516	577				
	155	- 51	1,4					
	(SF	50	50	97				
1	154	96	1 96	58				
	(5)	1]]	1				
Operational Star drops	KSF	75	48	848				Γ
_	(SF	Plan Australia						
	!	"PD is Percent Devetion from Bath Year		"Population Served is the total Resident & Non-Handers Popula	+ Trebesh & GO 13-++	+ 1/3 Mon-Paraderni		

No Report for FY 78 as the Installation went into caretaker status in FY 79.



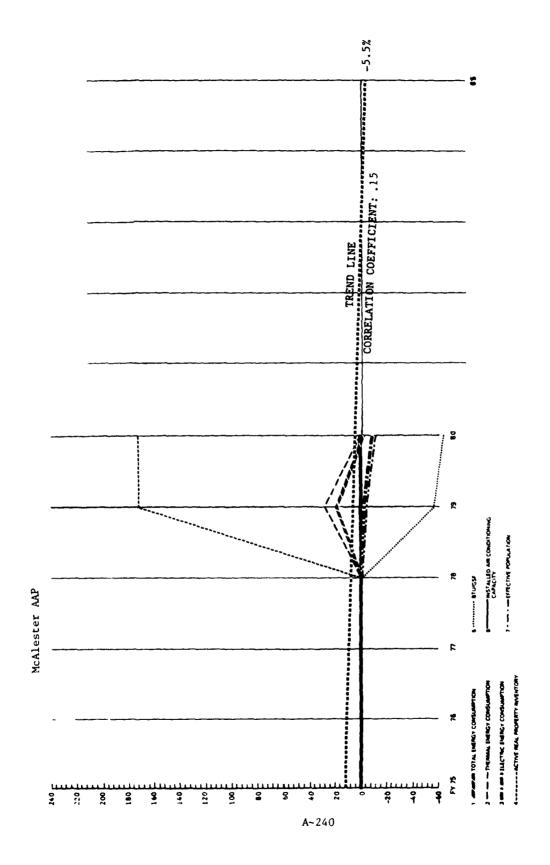
		1 -1 -1 -1		-		1	-	
	VANTS FV			2	£	-	2	
1 Engay Consumption & PD	MATE			- KELL 177	1 12.7.2.3	350.95	35	18.
2 Thermal En Cons to PO	MHTU		-	, 007.565	1 (70./2	054.022 1.45	-	4.64
3 Electrical En Cona 19 PD	MRTU		- 1	1, 906, +21	L _' dua_ett	22,011	454	7
4 Resident Population & PD	PROPIE		~	1 256	N47 -110	×	050	10.51
5 Non Resident Population & PO	POPLE		-	5.38	11-1 851	5.	271	19.65
6 Population Served** & PD	MOPLE			. 488	1,205		321	=
7 Effective Population*** & PD	ROPLE		-	1 671.1	71-1	-	140] <u>-</u>
8 En Consumption/Pop Served & PD	MBTUCAP			287.0	154.5	1	265.6	-7.41
9 En Consumption Ett Pop to PO	MBTUCAP			178.3	442.1	5.	307.8	-18.6
10 Electric En Consumption/Resident Population	MATUCAP		· -	142.0	164.8		124	-12.51
11 Insuelled Av Cond Capacity & PD	TOMS		!= !-	309	70 (-37)	1	-	19.08-
12 Elec Energy/Ton of Air Cond & PO	MBTUTON			4.16.6	1,944.4 1356.8	-	174.2 (3	10.868
13 Real Poperty Inventory (RPS 6 PD	¥S¥		-	9,913	9,962 1 0	.5.	0,163	2.
14 RPMEMective Population	KSF.CAP			8.78	10.31 - 17	.5.	8.91	1.5
15 Engry Companytion/GSF & PD	820.08		-	43,046	0- 1 488 27	.51	- 1 828 1 -	-19.91
18 Thermal En Consumption/GSF to PD	BTUGSF		-	1 11 15 65	28,872 1 -2	17	. 692	26 41
17 Electrical En Consumption/GSF to PO	BTU-GS#			13,609	14,014	0.1	836	5.7
18 API by Category	¥S¥							
Treaming	7.				3		7	
Mantenence & Production	KSF			179	176		773	
Research, Development & Tearing	KSŧ			51	91		91	j
Secreta	¥S¥			6,010	4,007	9	6,016	
Other Covered Storage	KS	Not Available Serverately Included Abnue	15 W	2,187	2.204	2.	165	
Houseast & Martical	KS4			11	91		91	
Adriandiothern	KSF			78	08		79	
Bechelor Housens	#5#			75	5.1		55	
Community Far stress	#S#			150	174		177	
Farret Houses	KSF			487	897		729	
Dogramma Bus desce	KSF			26	91		93	
Uniter Butteren	KSF			-22	35		17	

This installation was transferred from the U.S. Navy as of 1978 and is NOT Contractor openings.



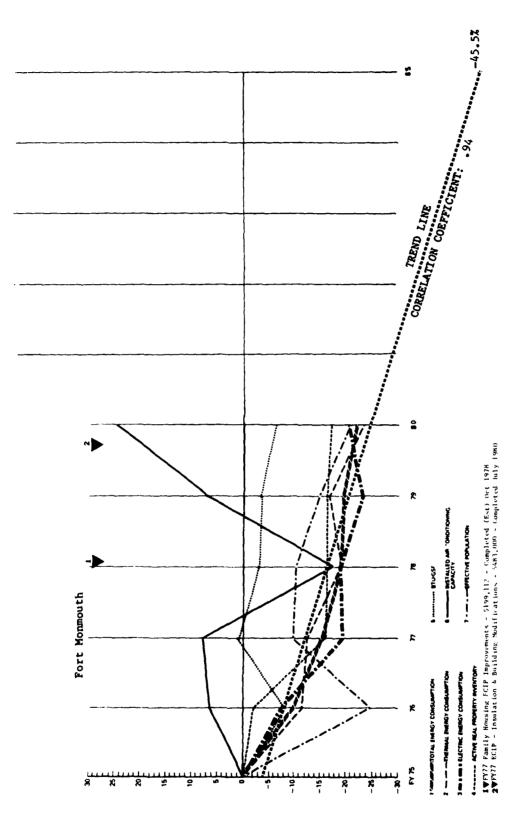
CLIMATIC REGION 3 HDD 5,132 CDD 1,191 US AMY ANALYSIS OF ENERGY CONSUMPTION - INSTAL ATION JETTERGIN PRINTING GRAL, ITMNACOM HARGIN

Sneigy Consumption 6 PD			•					
OH 6 HO		R	R	2	R	£	8	
	510	96.171	78.218 (-18	4,71 A1,306 1-15.5	117.1 -1 28.75	68,124 (-29.2)	73,116 1-24.	0
Premie En Cone to PD	500	55.78"	40, 574 1-27	=	1 63,54R 1 13.91	38,150 1 -31.6	40.729 1-27	٥
Elecurcal En Cons & PD	MBTU	40.39		871.76	1 31,299 (-	29,974 1 -25.81	32, 337 4-19, 8	9
section Population 5 PD	37-00%	9	-	-21.01 39 (-37.1	_	31 1 -50.0	29 6-51	٦
ton Resident Papadenon to PD	100	547	-	-16.51 39R 1-27.2	359 (-34.41	352 1 -35.64	71 1 295	4
Vapulation Served** 6 40	1001	109	-	-16.91	187 1-34.51	383 (-37.1)	'RI-, 965	٩
Ellective Population*** Is PD	100	241	-	112	148 1-39,31	-	185 624.	7
En Communicacións Served 6 PD	MOTUCA	1,7,9	154,6 1- 2	7.11 196.1 117.8	1 245.1 (55.2)	177.9 1 12.6	147.4 -6.	-
En Consumption Ell Pap to PO	MOTUCAP	3.4.1	389.1 4- 1	1,31	_	-	395.2 (0.	-
Becare for Consumption Resident Population	METUCAP	6.1.5	766.2 1 17	7,61 875,6 1 34.4	1,117.8 (71.61	17.87 1 6.496	1116.8 471.	4
benefits & Cond Concerts to PO	70MS	5	0 , 549	0 1 645 1 0	1 665 1 0 1	1 0 1 549	, 599	a
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A Property Description (BC) to 70	252	. 75	707	4,71 697 1 3,3	1 697 1 3.31	679 1 0.68	690 1 2.	7
of front Production	KSFCA	2.77	3.52 1.27.	7,11	4.71 6 7	4.591 65.84	3.73 134.	œ.
Commence Commence of the P.	BTUGG	142. 76	110,634 1 -22	2.31 116.651 1-18.1	136,079 1-4.51	100,330 (-29.6	105,965 625.	٩
The Committee of the Party of t	Bruce	82.37	57.530 1-30.	1.7	1 91,174 1 10.31	56,186 1 -32.0	59,028 1-28.	٥
Burney for Communication for the Bro]	56.839	53.103 (-11	1.31 48.993 1-18.1	1 44,905 1-25,01	77.177 1 -26.21	46.938 1.21.	٩
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	#S#	61	19	52	52	44	39	
Burney votage	2	2	41	41	12	4.1	14	
The property of	KS1	14	1.5	15	1.5	15	51	
	25	Not Avelable BA	BASE				•	



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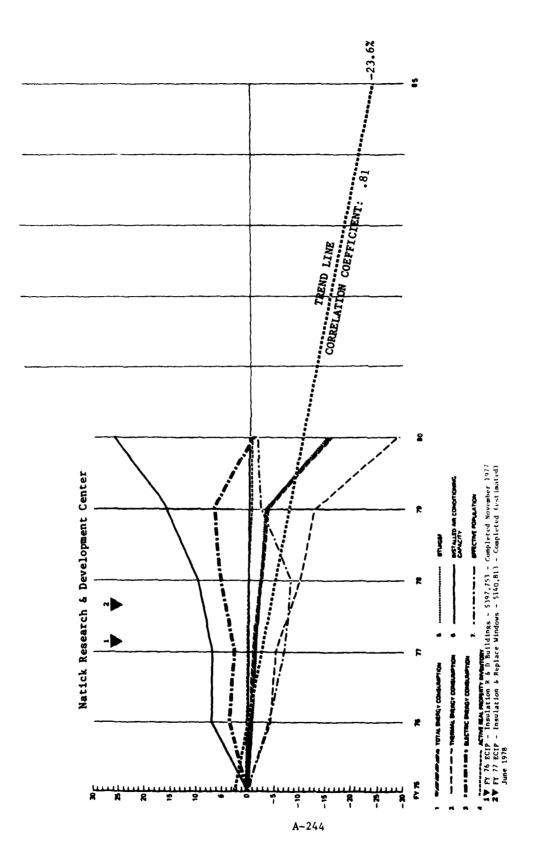
This Installation was transferred from the U.S. Navy as of PY78 and is NOT Contractor operated.



A-242

U.S. Army ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION -	CONSOM		ET MONNOITH NI	MACOM		CLIMATIC REGION	3	3	1		7
	_	-	-	-	-	_	-	-	-	7	•
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The Contraction is 100	Merc	1 014 020	757 753 1	0 0 1 1 562 679	1-15.41	1 487 631	1-19.01	1.474.460	118.71	1,425, 160	1-22.4
*-	METU	1 066 512	926.607	_	1-12.51	847.950	1-19.01	869.932	16.91		573.54
	Meru	789 488	728.047 1-	7.8 1 636 598	1-19.41	619.681	1.0.61-	604, 528	1 -23.61	624.660	1-20.9
•	FOFE	46.416	-	Ļ	1 - 7 - 1	6.270	1- 2.61	5.587	1-13.21	197.5	L10.8
8	MONE	9 5.87	10.266	7.11 8.154	14.91	7.126	1-25.71	7.798	1.7.81- 1	5.598	1.41.6
	NO.	160.31	-'	12.01	(-11.8)	13.396	1-16.41	13,385	1-16.51	11.339	L29.7
•	MONE	4 617		7 8	1- 9.71	8,645	1-10.21	8.186	1-15.01	1607	£ 21.0
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The state of the	METUCAP	122.7	-	ī	4 (-13.2)	102.0	1-16.81	108.2	18.11-1	108.8	£11.3
8	TOMS	5.505	-	5	9,7	4.526	1-17.8	5.8%	11.7	6,862	124.7
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-	*St	7 431		1-1	1 -16.2	6.206	1-16.51	6,205	15.51	091'9	11/11
_	KSKCA	17	۔ ج	10.00	72 (- 6.5)	.72	1- 6.51	96.	-	18.0	2.0
2	BTUGSF	247.075	-'	7.91 249.386	(6.0	239,708	1- 3.01	237,624	1 - 3.81	231,390	(-6.)
	BTUTGSF	140.833	-	9.51 147.138	15.4	136,633	1- 3.01	140,198	1 - 0.51	129,984	1-7.7
_	Bruce	106 242	100 088	5	-	103.074	1.3.01	97.425	16.8.1	907.101	9.5-1
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	KS	975 1	1,685	789		1.687		1.688		1,688	
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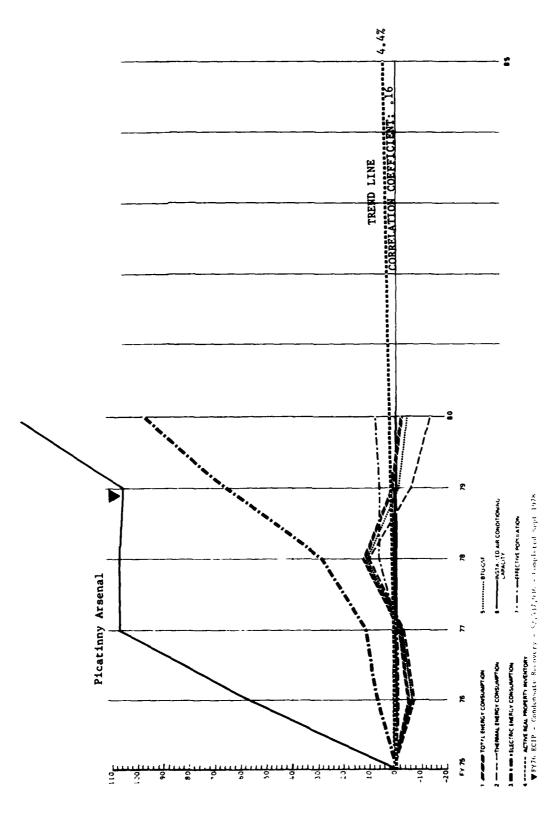
1 W FY 77 Family Housing ECIP Improvements - \$199,112 - Completed (estimated) October 1978 2 W FY 77 ECIP - Insulation & Building Modifications - \$483,000 - Completed July 1980



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1 frames Communication is 70	55.00	308.773		-	306,588	٥	E	304,502	1.4	1 299	282	16.2 -1	107.13	ŀ	- B.	259.443	-	10.9
2 Thursday Cons & 80	2	163,650			156.360	1 4	23	155,297	L 5.1	1 146	146,941	1-10.21	142,624	-12	1.8.3	116.079	-	-29.11
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	MONT	355		L	134	3	16	329	£ 7.3	2	330	107-	386	-	8.7	197	-	<u>ء</u>
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П	Brucer	157,963			150.781	- 4	4.51	149,756	1- 5.2 1	141	141,790	1-10.21	138 470	 	1:1:2	112,480	-1	-28.81
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A Manual . The strain of the S	Tagailabe B			7.753 ~	\$397 753 - Completed November 1977	4 Movemb	er 1977	~										

1 Fr 75 ECIP - Insulate R & D Buildings - \$397,753 - Completed November 1977
2 Fr 77 ECIP - Insulation & Replace Windows - \$140,813 - Completed (setimated) June 1978

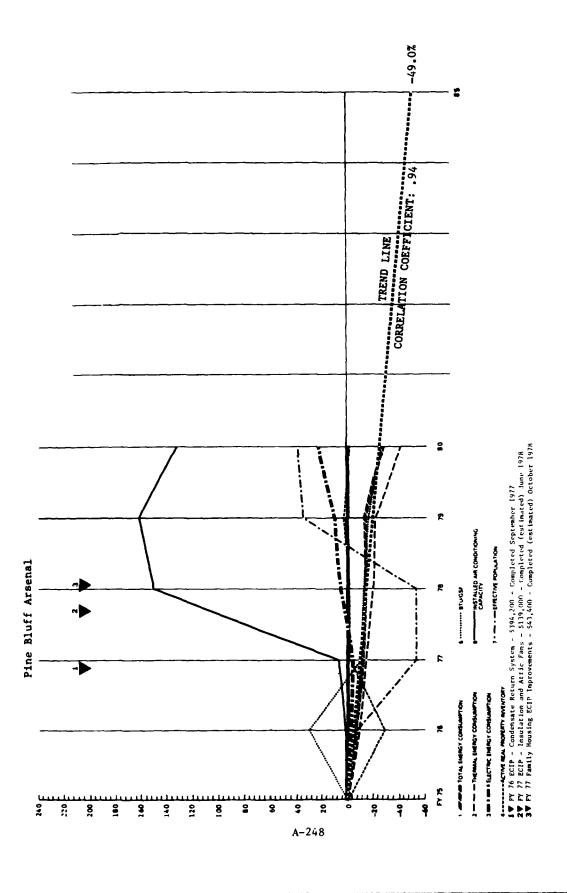


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CLIMATIC REGION 2 HDD 6,304 CDD 430	
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INSTALLATION PICATINEM ARSENAL NI	
ANALYSIS OF ENERGY CONSUMPTION - 1	
U.S. Army	

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	UMITS/FY	R		R			<i>n</i>	R		æ		8	
1 france Consumption to PD	DIBIN	1.759.556		1,647,292	12.5-1	1,729,057	1.7.1	192,176,1	12.01		1 0.7.1	1,712,443	1 -2.71
2 Thursday Const to D	UMBTU	1.585.800		1.482.400	12.6.51	1.534.850	13.2 1	1,746,975	(10.23	1,483,550	1 5.4 1	1 369 675	1-13.6
Control for Control of the Control o	DIE	173.756		184.892	7.9	194, 207	111,8 1	224,286	1 29.11	288,074	1 8.5.8 1	34.2 768	97.31
	HOPLE	161		415	14.3	374	3.0 /	807	1 12.41	978	1 58.7 1	454	30.61
The state of the s	MONE	5.738		5.450	1- 3.3	5.555	(- 1,5 t	606.5	1 4,71	707.5	1- 4.21	5 879	17 1
The state of the s	PEOPLE	100 5		5,865	1- 2,31	5,929	1-1,21	411.	1 5,31	5,980	1-0-3	6 303	5.03
	MONE	2.242		2,232	1-0.41	2,226	1 - 0.7 1	2,378	1 6.11	2,377	10.9 1	2.417	7.81
	METUCAF	293.2		284.3	10.8 -1	167	15.0-1 9.	312.	17'9 1	2.96.2	1.0.1	271.7	1.7.7
Control of the Contro	MOTUCAP	784.8		747.0	18.4 -1	776.8	.8 (- 1,0)	828	19.5 1	745.3	1-5.01	708.5	1 2 9 7 1
S CHICAMONICA CON CONTROL CON CONTROL	METUCAP	478.7		445.5	16.9	519.	.3 1 8.51	249.	14.81	500.1	15.31	723.1	51.11
10 ENGINE OF CONSTRUCTION TO SECURE	TOMS	795		1.250	1 57.21	1.650	1107.51	1,650	1107.51	1,630	105.01	1.975	148.4
DATE OF THE PROPERTY OF THE PAR	MET LATOR	218.6		147.9	1 - 32 . 31	117	1 1.46.1 1	135.	18.76-1 6	176.7	1-19.1	173.6	-20.61
12 the transpyrion of Ad Cond of PU	KSF	3.785		3.822	1.01	3,825	(1.1)	1,811	1 0.71	3,848	1.7.1	3.886	2.71
13 Mad Property Investory ways 6 PU	KSFC&	1.69		1.71	17.41		.72 ' 1,R 1	٦	.60 1- 5.11	1.62	1 7 - 7	1.61	18.7
14 WWETHICKNE Province	BTUGSF	464.876		436.235	1-6.21	452.041	1-2.91	\$17,256	11.31	760,401	1-1.01	440.670	1-5.21
In the graph continues of the	#TWGSF	418.970		387,860	17,51	401,268	-	07,824	176 1	385,538	10.8 -1	352,464	1-15.91
In Theres to Consumption/USF 6 PU	BTUNGSF	45.906		48.375			U	58,853	1 28.21	74,863	(63.1)	88.206	1 92.11
17 Electrical En Contumption/GSF & PO	KSF	***************************************	\otimes	****	$\times\!\!\!\times\!\!\!\!\times\!\!\!\!\times$	******	*****	*******	****	****	$\stackrel{\otimes}{\otimes}$		
Andrew Andrew	×S×	70.		70				75		54		75	
Limital	#S#	1.048		1.056		1.055		1,037		1,028		1.032	
Marriengros & Production	25	554		575		580		526		569		556	
Research, Development & Testing	KSE	894		920		209		561		193		195	
Steady .	ð	Ass Available Separately Included Above	ded Above		BASE	111		127		723		917	
Other Covered Storage	KSF	8		80		8 8		8		8		80	
Hospital & Method	¥.	643	-	609		612		917		715		172	
Administration	¥S¥			57		58		95		56		26	
Bechelts House g	KSF	151	-	163		191		191		156		166	
Community Fit dines	KS#	189		189		189		189		189		189	
Farmly Houseng	KSA	16		06		1 90				9		62	
Operatural But drops	KSF	80		85		1 85		85		88		86	
Chilley Buddings	KSI	Not Avelable	BASE							٩			
100		*FD as Parcent Denation from Base Ves	from Base		ulation Served I	** Population Served is the total Readers & Non-Seaders Population	Non-Readent Popul		***EH Pop is Resident + 1/3 Non-Residen	1/3 Non-Resident			

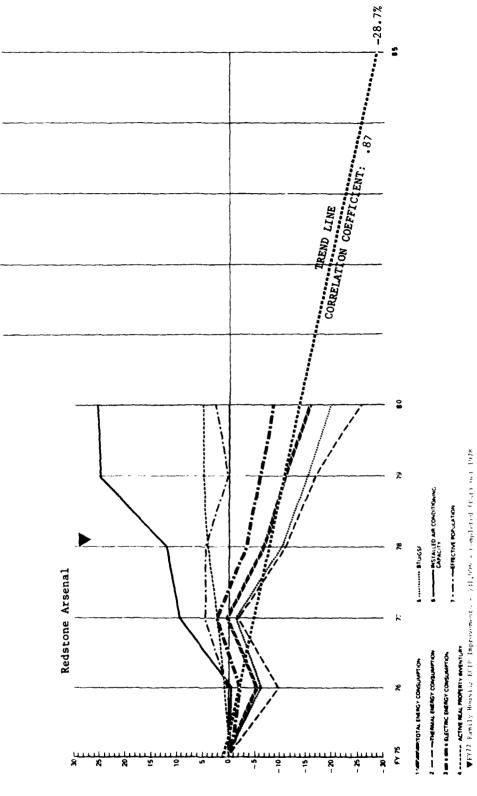
FY 76 ECIP - Condensate Recovery - \$2,537,036 - Completed September 1979



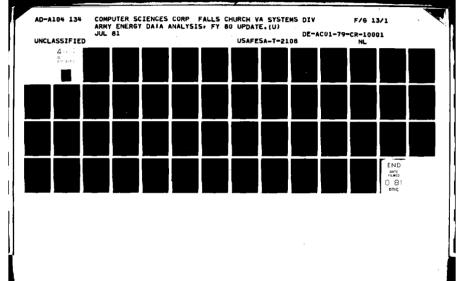
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	UBSTSAY	£	R	E	R	£	04	
1 Energy Consumption to PO	D1887	524_328	483.287 1-7.8	11,11, 685,569 (-13,1)	442,761 1-15.61	444,08_ 1-15 1	374,943	1-28.51
2 Thermal En Cons & PO	METU	419.461	381.297 1-9.0	_	332.071 1-20.81	328,621 1-22 1	247,250	1-41,11
3 Electrical En Corre de PO	MBTU	104 865	101 490	100.225 644		115.461 4410 1	127.693	1 21.8 1
4 Resident Population & PO	MEDIME	190	181	1 8 99 , 19	63 4-66.8 1	190 (0 1	197	1 3.7 1
5 Non Assistant Population to PO	MOME	1 0%0	5.01-, 11.6	548	552 1-46.91	1.592 (-53.1)	1.630	1 56.7 1
8. Population Several ** 6 PO	PEOPLE	1.230	1 114 - 1-9.6		-		1.827	1 48.51
7 Effective Population**** to PO	PEOPLE	517	493 1-8	246 (-54.2)	247 1-54,01	721 1 34,3 1	140	1 37.91
8 En Consumption/Pop Served to PD	METUCAP	426.3	433.8 1 1.8	745.6	19.9 1 68.91	248.2 141.8 1	205.2	1-51.81
9. En ConsumptionEM Pap & PO	METUCAP	976.4	980.3 1 0.4	1.851.9 189.7	1,792,6 (83,61	615,9 1-36,91	2'905	1-48,11
10 Electric En Communiphon/Resident Population	METUCAP	551.9	554.6 1 0.5	1,590.9 188.2 1	1,756.9 (218.3)	607.7 1 10.1 1	2.849	17.4
11 Inguithed As Cond Capacity & PD	10NS	351	-		1,383 (151)	1, 433 (160)	1.273	131.01
12 Ese Energy/Ton of An Cond Ib PD	METUTON	190.1	182.5 '-4.	170.2 '-10.6'	80.0 (-57.9)	80,6 1-57,71	100.3	1.6.7.21
13 Age Poperty Inventory (MPI to PO	KSF	761-1	2.253 (-29.5	3.	-	3,266 (2,2)	3,139	1-1.7
14. MPERIONE Population	KSFCAP	36.5	4.57 1-23.23	12.85 (116.1)	12.77 114.61	4,53 1-23.8 1	47.74	(-28.7 1
15. Engage Consumption/GSF & PO	BTUGSF	164.160	214, 508 (30,7)	144.076	140,425 1-14,41	135,971 (-17,2)	119,447	1-27.21
18. Thermal En Consumption(GSF & PD	Brucsr	131, 328	169,462 1 29,0	31 112,380 1-14,4	105,319 (-19,8)	100,619 (-23,3)	19,167	1-40.01
17 Bacaveal En Companyment (25% to PO	BTUGSF	32	45 046 137.2	1 31 696 1- 3.4 1		35,352 1 7,7 1	089 07	1 23.9 1
16 NPT by Casegory	KS.F						******	
Trains	KSE				1	•	S	
Mentenance & Production	KS#	786	748	795	795	875	682	
Contract Construction to London	H.S.F.		ı	•	t	,		
-	152	2.056	1.173	166	166	1.016	666	
Other Council Steams	xS#	Not Available Separately-Included Above	BASE	1.040	1.040	1.040	1,129	
Manual for Manual and	1SF	σε	3.0	19	19	19	11	
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1	KSF	77	3.6	07	0.7	0.5	07	
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	KSF	29	62	62		62	62	
The state of the s	453	7	8	œ	7	. 4	23	
The same of the sa	KSF		2.9	29	2.6	29	27	
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		*PD is Percent Devesion from Bess Yes		** Physideton Served is the sousi Resident & Non-Resident Population	En Pop a Pandere	+ 1/3 Non-Resident		

1♥ FY 76 ECIP - Condensate Return System - \$194,200 - Completed September 1977
2♥ FY 77 ECIP - Insulation and Attic Fans - \$119,000 - Completed (estimated) June 1978
3♥ FY 77 Family Housing ECIP Improvements - \$41,400 - Completed (estimated) October 1978



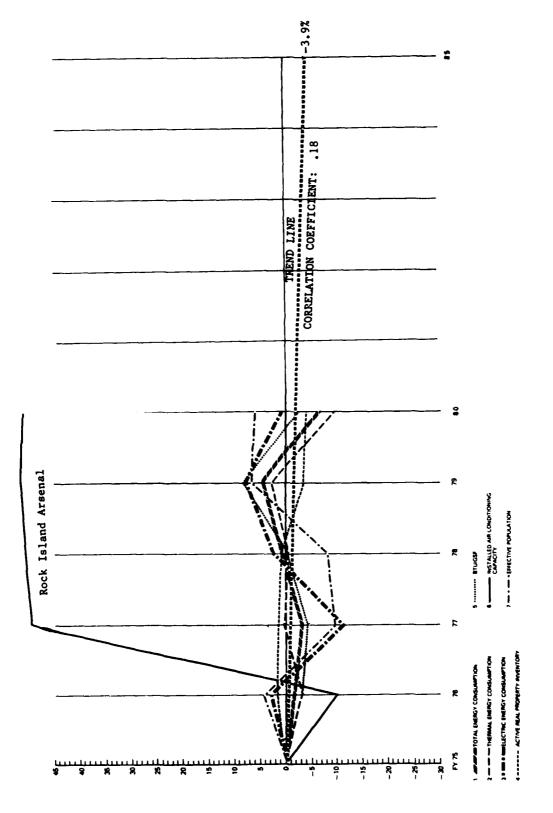
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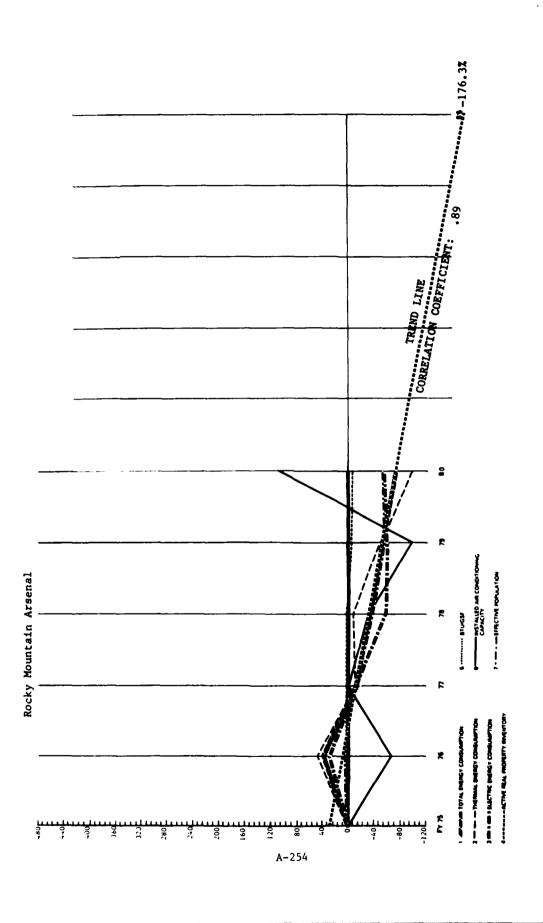
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		7	491,3 1- 1.4 1	466.0 1 - 6.51	473.6 1 - 5.00	434.9
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9	7.8	06	108	228	223	211
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♥ PY 77 Family Housing ECIP Improvements - \$31,096 - Completed (setimated) October 1978

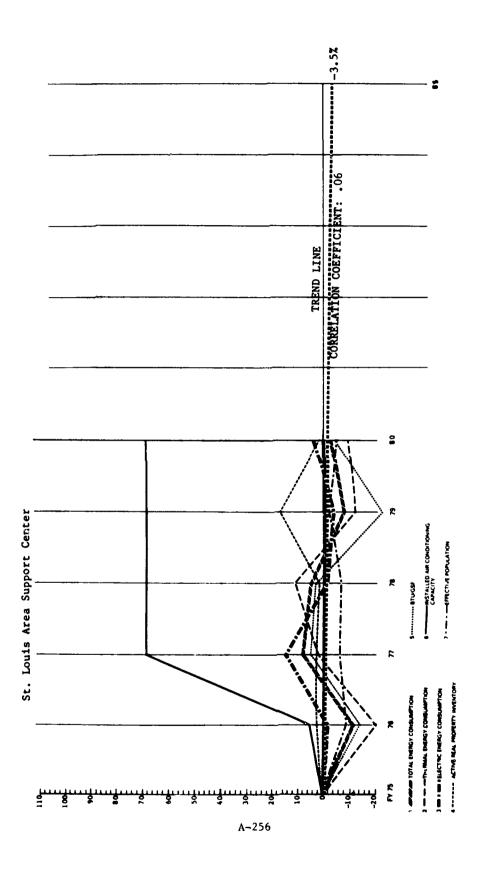


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	POP.	2.833	2.951 (4.2)	2,560 1- 9.61	2,598 1 - 8,21	9 1	
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	TUCSF	220.877	213.688 1 - 3.31	211,384 1- 4.3	220,024 1 - 0,41	238,607 (8.0	214,764
	TUGSF	157,321	149,366 1 - 5,11	155,736 (- 1.0)	1 (-1	167,511 (6.9	148,201
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	25	-	-	9	9	. 9	
<u></u>	487	215	218	219	204	234	232
1	3	178	8/1	178	178	178	178
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•	KST	7.7	76	97	100	100	103
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1 Ensey Consumption & PO	U.S.	262,429	231,453 (-11,81	284,200 (8,31	276,745 1 5,51	240,751 (- 8.3)	253,653	Ę.,
2 Thermal En Core to PD	DE LOS	141,712	113,412 (-20,0)	144,942 1 2,31	157,745 (11.3)	125,191 1-12 1	128.350	-9.41
3. Blecount to Cons & PO	METU	120.717	118.041 (- 2.2)	139,258 115,41	119,000 1- 1.41	115,560 1 - 4.34	125,303	-8.
4. Resident Paradetter to PO	PEOPLE	634	576 - 1 - 9.1	1 661 1 4.3 1	650 1 2.51	11.8 1 8.71	662 (4.4
5. New Standard Population & PO	PEOPLE	556	516 1- 7.2	323 1-41.91	336 1-39,61	330 (-40.64	•	-39.61
C. Papatation Served** & PD	PROPUE	1	1.092 1 - 8.21		986 (-17,11)	1,019 1 -14.41	, .	-16.1
2 Effective Paredition**** & 70	HOME		748 1 8.7	769 1- 6.13	762 1-7.01	199 1 - 2.41	1 7/1	-5.51
A. So Communication Pays of the PD	METUCAP	220,5	212,0 (- 3.9)	188.8 131.01	280.7 1 27.31	236.3 (7.1)	77957	15,31
2 for Consumeration Page to Po	METUCAP	320.4	309,4 1- 3,41	369.6 (15.3)	363.2 (13.3)	301.3 1 - 6.00	1777	2.31
M. Cheant & Communication Resident Providence	METUCA	4.061	- 6	210,7 1 10.6 1	183.1 (- 3.8)	167.7 (-11.9)	189.3	-0.61
11 Description Company & PD	1046		798 1 5,81	1,271 (68,61	1,271 (68,61	1,271 (68.64)	1.271.	9.89
12 files framewitten of As Cont & FD	METUTON	160.1	147.9 1 - 7.61	109,6 1-31,61	93.6 (41,5)	90.9 1 -43.21	9.86	1-38.41
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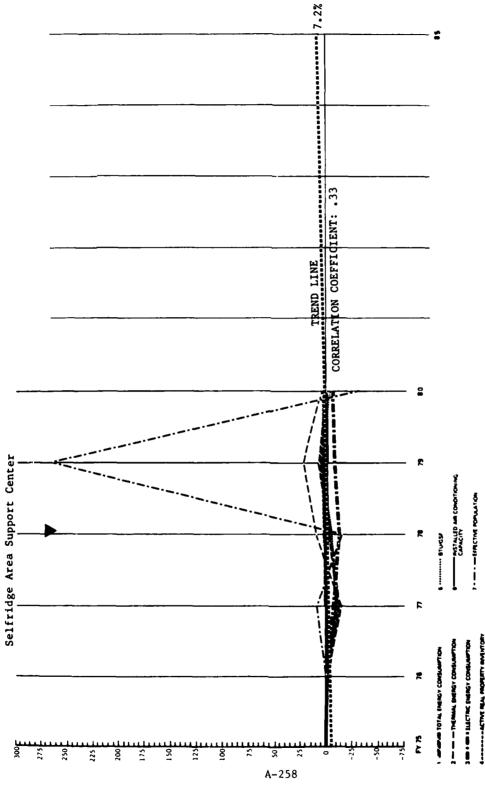


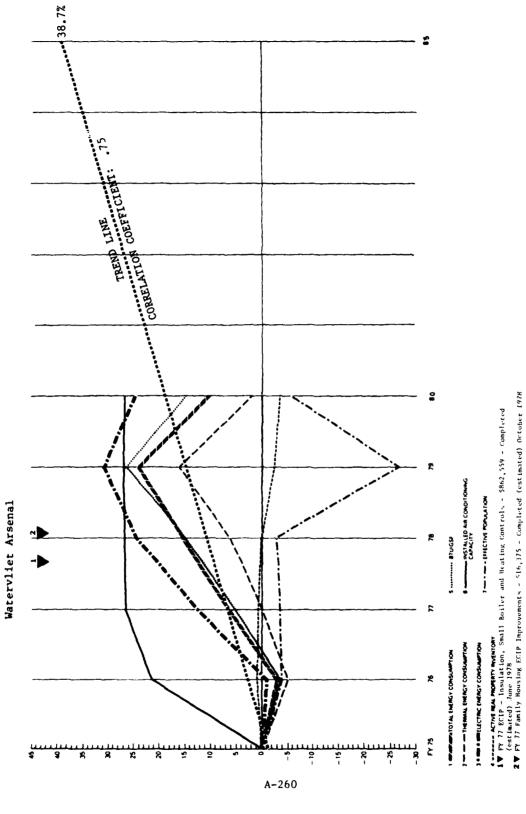
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7 Effective Population*** & PD	HOLE	6,500	6,438 1 - 1	6,538 (9.0 t)	- 1		1	2
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John Buddings	2	Not Aveilable BASE		\$		3	2	

In FY 75, Selfridge was a sub-activity of Ft Sheridan, II, and all data pertaining to Selfridge was included in the Ft Sheridan report in FY 76, Selfridge was transfered to DARCOM and has been reported separately since then. The FY 75 data shown hereon is estimated only and FY76 data has been used as the base vear. Population data for FY78 & FY79 appear—to be in error.

▼FY 77 Family Housing ECIP improvements - \$126,320 - Completed (estimated) October 1978



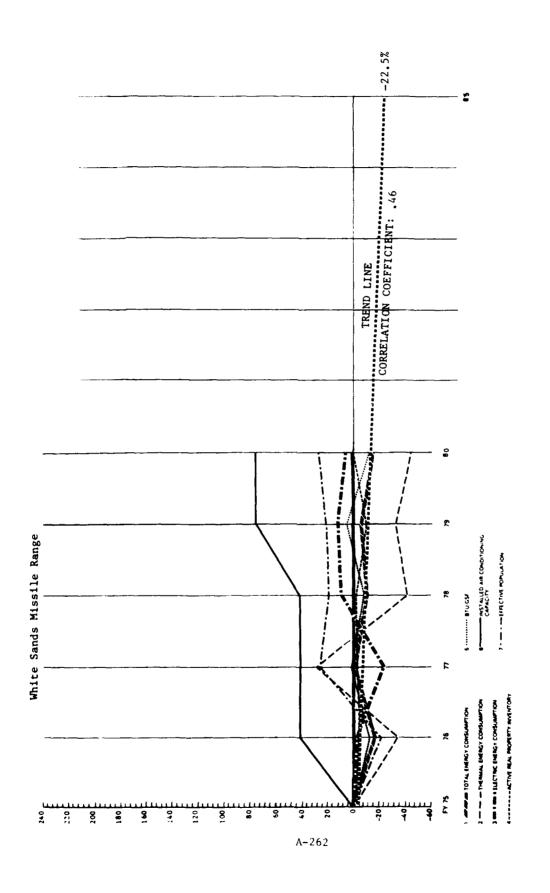
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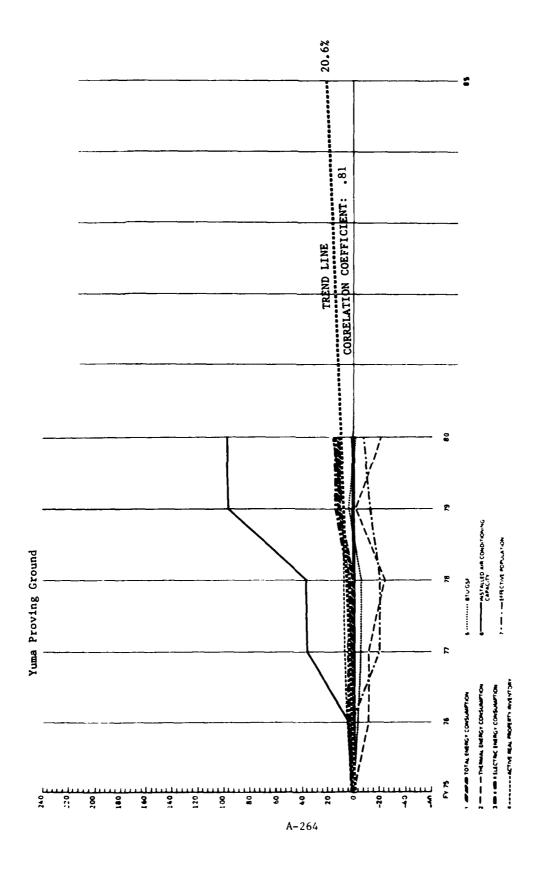
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Company of the Compan	4S#	2.158	2,175 1 0.8	2.1	2,160 ' 0,1'	2,105 1-7,51	2.075	18.6-
On Drawn Andrews Attaches areas of	KSECA	1.85	1.94	1.93 1 4.2 1	1.91 (3.1)	2.46 (32.9)	1.88	197
TA CONTRACTOR CONTRACTOR	#TUNGS#	342 496	129.313 1 - 3.81	361.345 1 5.51	393.890 1 15.01	433.667 (26.6)	391 693	17 71
OLD COMMENT AREAS C.	BTUKGSF	174, 673	164.656 '- 5.7'	173 446 1- 0.7 1	185,129 1 6,01	20k.160 1 19.2 l		10-0-
The streament of Company of the Comp	8TUKGS#	823	l t		08.761 (24.41	225.507 1 34.41	217, 320	1 29 51
17 Becovered En ConsumptionAGSF to PD	#S#							
And the same of	KSF		7	7	7	3	7	
	KSK	1 206	1.201	1 201	1.201	1.195	1 147	
Managements & Production	KSK	200	200	200	200	194	199	
Managerich, Development B. Tasting	KSF	318	319				,	
	KSF.	Not Available Seperatory Included Above	BASE	310	319	269	78.5	
Other Covered Storage	KSF		1	7	1		^	
Postbell is white:	KSF	153	151	152	152	152	164	
Administration and a second	KSF		1		7		-	
Speciality House of	#S#	39	- 45	7 77	59	39	07	
Convenienty For deals	KSE.	176	176	1.76	176	176	176	
Family Mount	25	19	-19	19	19	18		
Operational Re-design	KSK	3.7	3.6	3.6	36	36	37	
Califor Budding	KS	Alor Available BASE	14	1 - 14		14		
•		*PD is Percent Deviation from Base Year		"Population Seved is the total Readers is Non-Readers Population	non "Ett Pop is Readent + 1/3 Non-Render	1/3 Nov-Numbers		

1 F FY 77 ECIP - Insulation, Small Boiler and Heating Controls - 5862,579 - Completed (estimated) June 1978 2 FY 77 Family Housing ECIP Improvements - 516,375 - Completed (estimated) October 1978



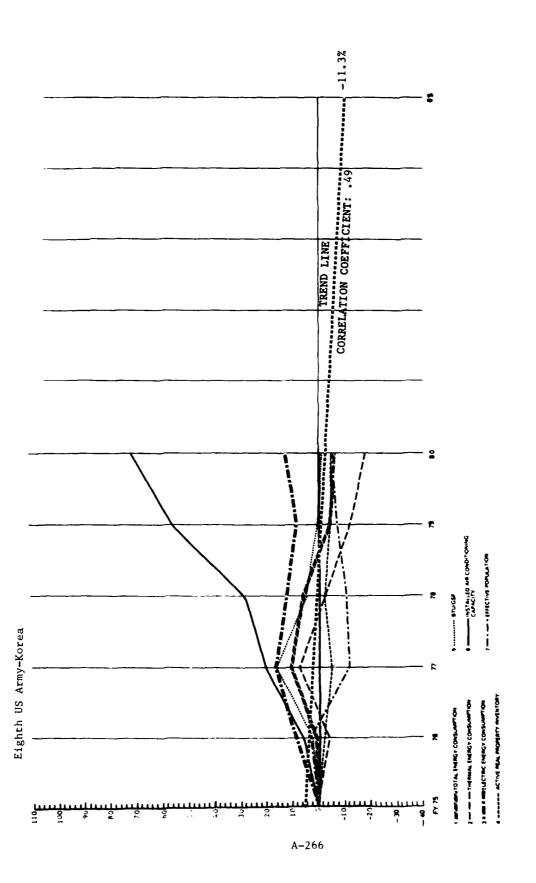
US AMY ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION - THITE SATIS HILE BANGE, LEL. MACOM DARCH

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	UNETSEY	ĸ	R	2	R	r.	0	
	MBTU	1 321 251	1 094 275 1-17.21	1 2 20 738 1-1 61	1,166,980 1-11,71	1 7 2 306 1-7 11	1.103.753	1-16.51
1 Energy Consumption is PO	VIENT		341 111 1-34 9	714, 856 1 28.8	126,755 1-41,11	167 597 1-34)	101 625	1-45.61
2 Themst En Cons Is PD	5197			584,882 (-23	840,225 1 9.61	R57,714 (+12 1	RO: 128	1, 4, 21
3 Electrical En Cone & PD	3000	1 420	,	L	3.055 1-10.73	3,010 (-12,01	1 220	18.5.
4 Resident Population & PD	NO.	2,000	-	-	5,520 1,176,01	5,749 (187,41)	897.5	17.881
5 Non Readon Population & PD	HOPE	5 420	-	8.950 1.65.11	8.575 1 SR.21	8,759 (61,61	8 388	1 65.81
8 Population Served** 6 PO	ROPLE	7 90 7	3 212 1 21 61	-	19.81	4,926 1 20,51	5,143	1 25.81
7 Effective Population*** & PO	WETUCK.	763 8	158 9 1-34 81		<u> </u>	139.9 1-42.61	122.8	19.67
A En Consumption/Pop Served Is PD	METUCAP	323.3	-		218,4 1-26,31	248,7 1-23.11	214.6	1-33.61
9 En Consumption Ell Pap to PO	METUCAE	224.1	533.2 138.0	176,0 1-21,4 1	275,0 1 22,71	284,9 1 27,2 1	249.1	11.21
10 Electric En Consumption/Resident Population	TORS	9 320	13 210 1 41.7	13.210 1 41.71	13,210 1 41,71	16,210 (73,91	16,210	1 73.91
11 businged Au Cond Copecity to PD	METUTON	82.2	-	44.3 1-46.1	63.6 1-22.61	52,9 1-35,61	5.65	1-39.81
12. Elec Enappellon of As Cond & PO	187	5.079	4.836 1-4.6	4,952 1-2,31	4,955 1 = 2,31	4,493 1-11,41	0 オッ	1 -2.41
13 Red Peperty Inventory (PPR to Pt)	33,52	1.26	1.51 (21.4)	L	1,01 4-18,41	1 6,95-1 16,	96.	1 -22.41
V x speltane hoodse	STUGSF	260.602	226.277 (-13.2)	262,467 1 9,7 1	235,516 1 - 9,61	272,714 1 4.61	223,025	1 - 14.41
15 Energy Consumption/GSF & PD	BTUGSF	109,453	74,671 1-31,81	167 121 11.91	85,945 1- 39.8	81,814 (-25,3)	60,947	1-46.31
16 Thermal for Commences/GSF for PO	BTUGSF	151 149	151 606 1 0.31	L.		190,900 (26,31	162.079	1.21
U 17 Bacancal En Consumption/GSF to PO	200						******	
18. 1971 by Campary	N.	72	32			32	7	
Tomas	KS	121	327	326	323	311	326	
Managements & Production	2	1.462	1.438	1.438	1.434	1,014	1.326	
Reservo. Development & Testing	ES.	895	897	ъ9	67	53	67	
Series	H.SF	Net Augustus Separates brouded Abs	No.	417	432	407	427	
Ober Covered Stannage	KS.	19	- 19	61.	19	61	3	
Name to Medical	100	454	545	451	649	471	566	
Advention	100	091	347	192	392	387	381	
Agent Huge	KŞ	257	282	282	276	272	27.3	
Comments for these	N.S.	1.123	1.175	1.287	1.287	1.288	1.288	
Fresh Person	200	657	150	163	167	163	167	
1	200	1,0	36	35		34	3.5	
	9	Net Australia	29					
į		and managed passage of a	Annual Company .	Section of the Party of the Par	· Internal a gal life	10 No. American		



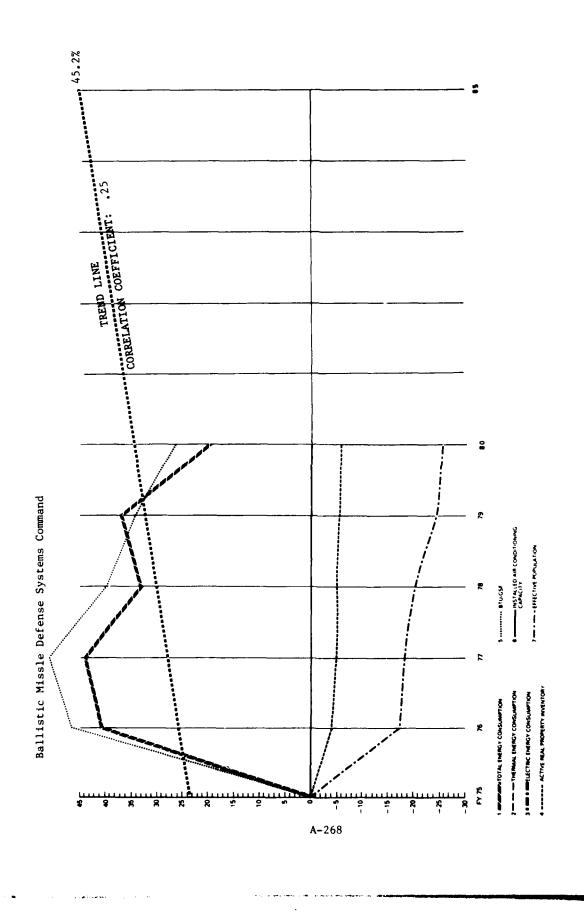
CLIMATIC REGION 6 HDD 968 CDD 4,261 US Amy ANALYSIS OF ENERGY CONSUMPTION - INSTALLATION YING PROTTY CROTTER AT

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	UNATEATY	£	£	*	R	R	8	
I finegy Consumption to PO	UBTU	300,001	11,0 1 879,005	-		1 11+1 110,228	338,931	19.6
? Thermal En Coms to PTD	MBTC	728	21,699 (-12,21	1 252 1-12.0 1	18,540 1-25.01	24,082 1- 2.61	19.200	1 -22 .41
3 Electrical En Corte de PD	Metu	284, 367	-	1 4.1 1 679 845	290,456 1	1 319, 915	119 711	17 (1
Resident Population is PD	FOFE	1 675	-	1,045 (-35,7)	1,080 (-35,0)	1.219 (-27.21	1 273	1 -24 01
5 Non Readon Population & PD	FORE	285	-	979 1243,51	925 (224,61	916 (221.41	1 005	1252 61
6 Population Served ** 6 PO	HOPLE	1.960	1.970 1 0.51	2,064 1 5,31		2,135 1 8.91	2.278	16.2
7 Effective Providence *** to PO	#0#E	1 270	1 777 1 0,41	1.411 1.20,31	1,397 (-21,1)	1.524 1-13.91	1 608	5-
En Consumption/Pop Served to PO	METUCAP	157.7	157,3 1-0,21	150,5 1- 4,51	153.4 1- 2.71	160.8 1 2.0 1	148.8	7.5
9 En Consumption (# Pap to PD	MOTUCAP	174.6	1:1.4 1 0,13	220.2 1 26.11	221.2 1 26.71	1225.7 (29.3)	210.8	20.7
10 Engine En Consumption/Resident Prostation	MBTUCAP	169.8	171.4 (1.1)	266,3 1 56,91	266.7 (\$7.1)	262.5 1 54.61	251.2	16.74
11 treating the Cond Concern to 70	TONS	3.000	3.059 1 2.01	4,083 136.11	17.96 1 50.41	5,876 1 95.91	5.876	95.9
12 Blue framoulling of the Court to PD	METUTON	8.46	19.0 - 1 - 5.56	70,0 (-25.31	71.0 1-25.11	54.4 1-42.61	7.75	42.6
2	KSt	1.311	1,360 (1,7)	1,404 1,7,11	1,409 1 7.51	1,408 1 7.41	1.490	-
	*3.5	.74	127 1 3.31	1.00 1 34.71	1.01 (16.2)	16.72 1 26.71	6	25.
15 frames Communicate to PO	BTUGSF	235.770	18.8 - 1 526.722	221,318 1- 6,11	214,302 1-7,01	244,330 1 3.61	227.470	1-3.51
16 Thermal En Communication (SE to PD)	BTUGSF	18,862	15,455 1-15,41	15,407 1-17,91	13,158 (-30.2)	17,104 (- 9.3)	12.886	1.16-1
17 Showard for Consumer Cold to Bo	BTUGSF	216.908	211.970 1 - 2.31	205_R75 1- 5.11	10.5 -1 22.01	227,226 1 4.81	214, 585	7
	KSF							
	KSF	1			_	_		
The state of the s	181	166	137	136	136	140	23.6	
	KS)	272	274	280	2R1	281	284	
	K St	118	135	09	υy	09	09	
100	KS.F	Not Available Separately Included Above	35VB	110	108	105	801	
	*35		13	13	14	71	14	
	1S)	- 92	761	6 υ1	113	113	111	
	KSE	173	176	174	170	170	170	
	151	601	130	132	132	1 3 2	132	
	351	360	358	360	340	360	360	
Page Annual Annu	#St	21	21	20	2.5	23	23	
Chambred for drags	151		7	7	10	10	٥	
Comp. Sections	ž	Mor Available BASE	5	-	,		7	



Korea
INSTALLATION
ANALYSIS OF ENERGY CONSUMPTION
ACTIV.

United Comment Properties Company Compan							T	-
Wattor Color Wattor Wa								
Matter 6, 515, 637 6, 610, 397 1, 07 4, 610, 395 1, 08, 998 1, 07 6, 520, 399 1, 07 6, 520,		UNHISEY		ž		E.	•	8
Mail	19gy Conquengages & PD	MBTU		-	7, 581, 506	7.054.968 ' 3.2"	-	6,401,956 1 -6.3
Marcel 1,54,122	gemet En Cons to PO	2010		-	4.607.950	4.178 075 -2 6	_'	3,517,175 4-18.0
Price 44,157 14,615 14	cercal fin Cars & PD	DEBTO		-	2,973,556	-	-	2,884,781 [13.4
Propert 13,610 31,681 2.1 13,462 31,113 3.2 31,114 3.5,199 3.5,199 31,114 3.5,199	matery Population to PO	ROPLE	1	-	17 611	-	16 8 315 07	41,895 1 -5.
Priority 19,787 18,122 1.6 73,073 -8,4 72,548 -9,15 14,992 -6,11 75,194 15,100 15,995 15,100	n Renders Pronteson & 70	ROPE	1	-	15 462	<u>-</u>	34, 417	33,299 1 -6.
Maintenance Se, 034	nataran Seresa" to PO	FORE	l.	 	73.073	72 548	76 412	75.194 1 -5.
Mail Color 12.0 19.1 10.1 11.1 10.1 11.2 1	See President 11 to 70	\$ CO.		-	217.67	257 05	\$1 987	52.995
12.0 19.1 1.2 19.1 1.2 19.1 1.2 19.8 14.9 125,4 1.2 19.8 11.0 10.	Contaction of the Street Is 70	PARTINCAP.			103.8	47.7	87.0 1 51	85.1 (-0.
Section Sect	Communication to by	THE TANK	:		7 151		-	120 8 (-1
Total Color Color					7.07		. :	15 10.021
Marchelle 6,013 6,424 6,8 7,289 21,29 7,64 29,19 9,455 27,21 10,316 1	THE IN COMMUNICATION INCOME. THE ABOUT		1		1.6/		7.88	60.9 19.
Section 1,000 1,	milital As Cond Capacity to PD	TONS	•		7,289		^	10,361 1,72.
Columbia Columbia	t Gregorii en ol As Cond & PO	METUTOR		.9 1 2		<u>-</u> ا	292.2 '-	278.4 1 -34.
Figure 29, 02, 02, 03, 04, 02, 03, 04, 02, 03, 04, 04, 02, 02, 03, 04, 04, 03, 03, 04, 04, 03, 04, 04, 03, 04, 04, 04, 04, 04, 04, 04, 04, 04, 04	I Property Incomery 6871 & 70	#S#	23,326	22,852 , -2.	-	-	22,210	22,022 1 -5.
File File	Effective Papulation	KSECE	.42	.391 -7.	. 57.	_	43 1	Ry'
Fired State 183 947 130 131 132 13	NEW Communication COST IN FIG.	BTUKGS/	293,042	302,004 7 3.	-	_	-	290,707 1 -0.
Fig. 109 055 121,688 11 to 134,392 125,948 125,948 124,401 134,111 130 134,401 134,111 130 134,401 134,111 130 134,401 134,111 130 134,401 134,4	med for Consumption/GSF to PD	BTUGSF	183,987	-	208,260	_	-	2 .
158 122 122 151 151 151 151 152	ancel for Consumption (CSF to PD	BTUGSF	109,055	-	_	125,948 1 15.51	-i	130,995 1 20.
EST 162 151 163 163 163 163 163 164	By Catalany	KSF						
15.5 1.5		25.2	162	151	163	163	760	9/1
155 15 15 15 15 15 15 1	Enterence & Production	KS	2,250	2,329	2,388	2,359	2,319	2,219
13	Married Destination & Commo	ES.	1	14	14	19	16	61
1.55 Heat Amended Stope and Part Applied Allows 1.55		2	4,503	3,967	353	579	137	122
137 137		#St	A	!	:	3,070	3,188	3,225
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,		ES.	371	353	357	351	337	351
1,74 7,880 8,223 7,839 7,744 7,880 8,223 7,839		KSF	1,739	1,827	1,827	1,845	1.852	1,877
155 3,733 1,746 3,735 1,746 3,735 3,749 3,735 3,746		KSF	7.881	1,774	7,580	8.223	7.839	669 1
1		KSK	3,668	3.751	3,497	3,733	3.764	3,806
SS		KS.	823	870	871	859	873	678
KSF 601 513 484 435 - 425		KS.	1,417	1,178	1,112	1,095	1,129	090 1
KSF Nor Available BASE 1.25 1.17 1.11		KSF	401	513	787	435	425	472
	•		Not Available BASE	125	117	1 111	121	711

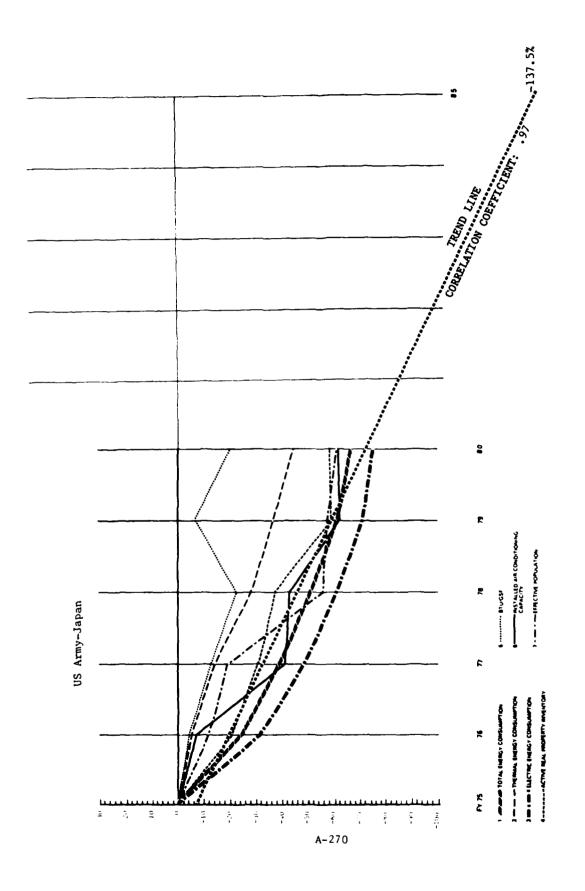


U.S. Army ANALYSIS OF ENERGY CONSUMPTION INSTALLATION OVERSEAS

MACOM BMDSC

UMISEY	ĸ	æ	"	. Br	6	8
MBTU	31,950	44,900 40.5	45,975 ' 43.9'	42,500 33.0	40.500 ' 36.8'	38,225 (19,6
5	31,950	-	1 45.975 ' 43.9'	42,500 '33.0'	-	38,225 1 19.
UMBTU	G	-	-	-	-	1 0
Mont	3, 905		1 3,193	. :	2 955 1 24 31	2.913 1-25.
Medical Proposition is 70	35	ļ	, 22 ,		25 '-28.6'	22 1 -37
	3.940	3,255 '-17.4	3,215		2.980 1.24.41	2.935 1-25
PEOPLE INCOME	3.917		3,200		-	2.920 1-25.
Plea Served & 150	8.1	13.8 1 70.4	-	13.5 4 66.7 7	9	13.0 4 60.
	8.2	13.8 (68.3	1 14.4		13.7 (67.11)	13.1 (59.
		- -	-	. 		,
1045	0	- 0	- 0	- 0	- 0	-
<u>۔۔</u>	•		-	-	-	•
	2,646	2,539 (-4.0)	2,520 1-4.8	2.520 1 -4.8 1	2.500 1 -5.51	2,500 1 -5.
	89.	78	. 62.	- 18	- 78	.86 1 26.
BTUGSF	12,075	17,684 46.5	18,244	16,865 1 39.7 1	-	15,290 1 26.
TO BELINGSE	12,075	17,684 (46.5	_	-	16.200 (34.2)	15,290 1 26.
BTUGSF	ĺ	0	.	!-	- 0	2 0
353						
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N.SF						
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KSK						
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Electric Energy is Generated On-Site



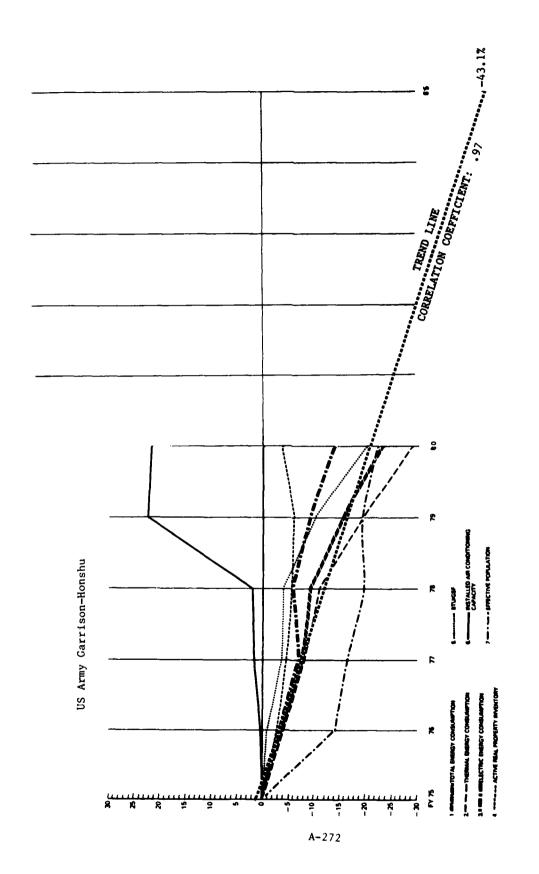
ANALYSIS OF ENERGY CONSUMPTION V INSTALLATION CONSOLIDATION

MACOM TEAR!

1,666,224	-61,11	1,445,484	-56,71
778,325	-37,2	686,600	-44,6
887,889	-70,8	78,884	-57,8
14,272	-29,1	12,225	-52,8
14,272	-29,1	12,225	-53,1
10,290	-51,2	10,264	-60,3
10,290	-51,2	10,264	-60,3
11,29	-51,2	10,264	-60,3
11,2	-21,2	12,2	12,2
11,2	-21,2	12,2	
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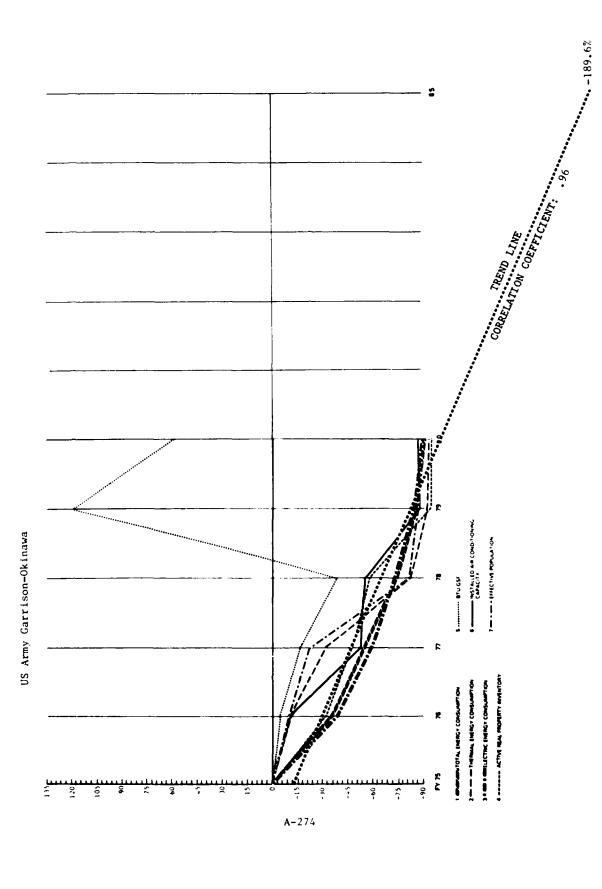
USARJ Was an Integral Part of USARPAC in FY 1975



S Army ANALYSIS OF ENERGY CONSUMPTION INSTALLATION Honshu

	UMMTSFF	٤	æ	11	82	•
1 Energy Consumption is PD	7,681	1,519,362		1,400,724 -7.8	1,381,3059.1	1,281,130
2 Thermal En Come to PO	1	939,350		864,050 -8.0	836,175 '-11.0'	754,200
3 Electrical En Cons & PD	Met.	580.012		536,674 '-7.5'	545,130 '-6.0'	526_930
4 Needless Pagestages 6 TO	ROPLE	7,950		6.040 -24.0	5,480 '-31,1'	5.364
5 Non-Resident Provision & PO	100E	9,928		10,040	10,636 ' 7.1'	11,050
Producer Seves" 6 70	700F	17,878		16,080 (-10.1)	16,116 ' -9.9'	16,414
7 Effective Population*** & FD	ROPLE	11,259		9,387 1-16.61	9,025 (-19.8)	9.047
A En Commencement Day Served to FO	METUCAP	85.0		87.1 (2.5)	85.7 1 0.8 1	78.1
9 En Canadagangia Pag to PO	METUCAP	134.9		149.2 : 10.6:	153.1 13.5	141.6
Charte in Constitution Property	METUCA	73.0		88.9 - 21.8	99.5 1 36.3 1	98.2
I business An Cores Capacity & FD	TOMS	4,223	4,228 ' 0.1	4,281 ' 1.4'	4,308 (2.01	5,161
2 the freezy/ten of As Card & TO	METUTON	137.3		125.4 (-8.7)	126.5 1 -7.9 1	105.1
D. Parenty Street, St. D. C.	3	6,622		9,193 1-4.51	9,107 (-5.4)	9,052
CONTRACTOR CONTRACTOR	KSECAP	.885		. 98 - 15.3	1.01 18.8	1.00
Frank Commission(59' & PO	BTUGSF	157,905		152,3683.5	151,675 4 -3.9 4	141,530
Permit in Consessant of the Po	BTUGSF	97,625		93,990 (-3.7)	91,817 (-5.9 (83,319
Berners for Commenced & P.	BTUGGG	60,280		58,378 (-3.2)	59,858	58.211
	151					
	Ş	9	42	35	25	25
Manager & Property) j	1,163	1,139	1,137	1,140	1.138
	KSF	-	1	16	1.5	28
Print Thursday in Business	77,	200.	1 ,,,,			

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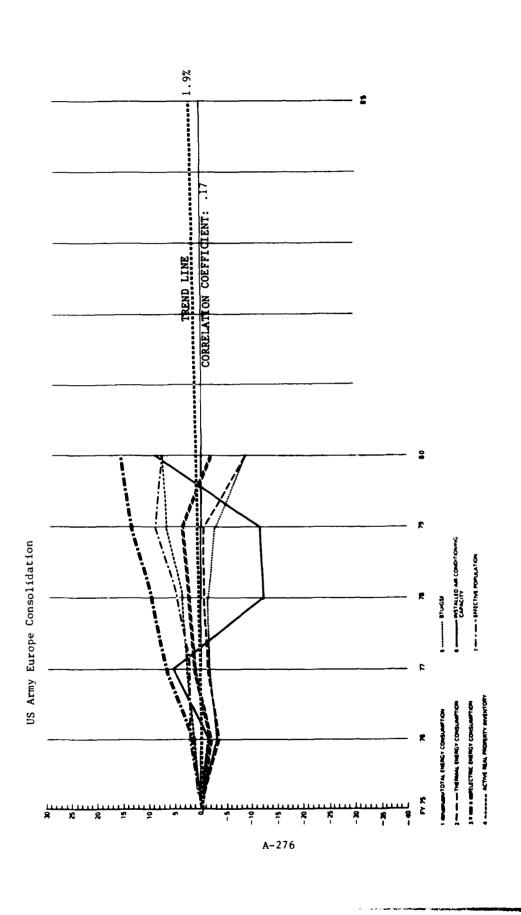
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	0.00	2,461,242	1,512,454 1 - 38.51	1,007,30959.11	
	100	11,226	9,949 11.40	8,737 (-22.2)	
	P.OP.	10,195	1 9,537 1 -6.54	8, 33818.21	
£	TOP C	21,421	19,486 - 9.0	17,07520,31	
	50	14,624	13,128 (-10.2)	11,516 1-21,33	
	MOTUCAP	128.9	91.4 (-29.1)	71.0 (-44.9)	
£	METUCAP	188.8	135.7 ' -28.1'	105.2 '-44.3'	783.4 . 50.1
	METUCAP	219.2	152.0 ' -30.7'	115.3 1-47.4	1
	1045	13,590	12.287 ' -9.6	6.377 '-53.1'	i
_	MOTUTON	181.1	123.1 -32.0	157.9 '-12.8'	
	3	14,405	9,675 1 -32,81	1,549 1-47,61	
Aud Property Investory MPS & PO	KSFCAP	66.	,74' -25,3	16.66-1 99.	ļ
	BTUGSF	191.674	184,122 ' -3,9	160,506 '-16,3'	
Energy Consumption(GSF to PD	BTUGSF	20,814	27,796 1 33.9	27,070 1 30,11	1
Thermal En Consumption (GSF to PO	RTIMOGG	170 860	156 276 - ACS ASI	133 436 1-21.93	

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2 Thermal En Comp to Pto	9	1 441 167	2 85 - 28 50	_	-	360,969 1-85,31	260.188 1-89.4
3 Electrical En Corte & PD		7 22 11	-		-	869 (-92.31	1. 1.6-1 0.7
4 American Providence Is 70		477411	200	000	. ! .	ľ	ľ
	30	10,195	6,537	8, 556	-;	-	. K-87
5 Non Resident Population to PO	40	21,421	19,486 - 9.0	17,075 1-20,31	-	4,091	1,110 1-85.5
8 Population Served** to PD		14 674	_	11,516 1-21,31	2,517 (-82.8)	1,943 1-86.71	1.537 1-89.5
/ Effective Population*** to PO		0 001	,	-	10	78	1 5 6C-1 6 UB
8 3 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	40.00	_	1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		. !		
I In Cardinal Service Service of the	MBTLMCAP	_	-	105.2 '-44.3'	283.4 ' 50.1'	198.2 5.01	184.0 - 7.5
9 En Combampagnulfill Page to PO	SAN TINCAL	•	12 02 1 0 551	17 27-1 511	-	1 5 08 1 7 517	346.9 1 58.3
10 Electric En Consumphon/Resident Population	_	7-617	17 10 1 200 00	-		1 650 1 87 81	1.831 6-86.5
11 Insulated As Cond Capacity is PD		_	107.77	18 61 1 0 251	1,00 8 1,000	-	142 1 1-21.5
12 East Ensessed on of As Cand to Po	5	7.707	0.76- 1.671	1 570 - 77 61	i-	-	1 1 1 1 1 1 1 1 1 1 1 1
13 feet Popers Ingles of the 6 To		_	10.00	-	17 671 107 6	1 67	4.81-38-4
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14 INTRINSITION PROPERTY.	81UGS	191,674	184,122 ' -3,9	160,506 '-16,3'	118,087 -38.4	٦ ا	303.095
16 Energy Consumption(GSF to PD	BYUGSE		27,796 1 33,5	-	8,800 1-57,71	26,109 25.4	24.223 1 16.4
18 Thermal En CommenceanGSF to PO	BTUGG		-	-	-	390.659 (128.6	278 872 6 63.2
17 Becancal En Consumpton/GSF & PD	252	((
18 MPI by Campany	2	20			1		C
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1 frame Consumos to PC		151 153	1.5- 1.05.817	46,097,267 , 0.9	-		100
				_	32,731,954 ' -0.71	32,845,400	1
2 Themsel En Core & PO	25	32,971,375		2010111	18 0 1 778 176 11	14, 400, 459 1 13,41	14,666,948 (15,51)
J. Electrical En Coms fo PD	5787€	12,699,978	12,885,292 1.2	7	-	-	191,658 1 5,51
4 Readont Population & PD	P10916	371.201	378,276	373.20/		10 10 1	150 465 1 25.51
A the Bester Products to 70	9 400 18	488 01	128.433 (7.1)	138.095			1701
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		j	! !	1	15.7 1 609 067	1,12,8 , 056,977	641,813 1.21
7 Ethecone Population*** to PO	PEDPLE	77	-	7	-	ļ	82.5 (-11.3)
٤	SABTU CAP		- :	7.06	1000	-	101 2 1 -8 91
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10 Electric En Consumption/Happoint Populations	10.00		-		10.349 1 -12.21	10,437 '-11,51	12.831 1 8.61
11 Installed As Cond Capticity & PD	TONS	11,791	1		147 2 6	1,379.8 1, 28.11	1,143,1 4 6,11
12 Elec Energy/Ton of An Cond & FO	METUTOR	1,077.1		1,092.2	-	-	280.420 1 7.41
13 feet Popular Instructor (FP) 6 FD	#St	261,084	264,026 1.11	268 088	1	12	0 68 0
		190	0 - 19 0	0.64	.63	****	
14 Marie Mactine Population	1	75.010	1,60 378 1 -3 21	171.948 1-1.71	172,400 ' -1.4"	169,815	,
15 Energy CommemphenYCSF B FU	20.00	114,330	-	- 7	120.903 1 -4.3	118,055 ' -6,51	107 186 1-15.11
18 Thermal En Contamphon/GSF to PD	BTUGSF	126,287	. .		3 1 107 17	51,760 1 6.41	52,303 1,51
13 Pleasural En Consumerant SF to PD	250018	48 643	08.85				
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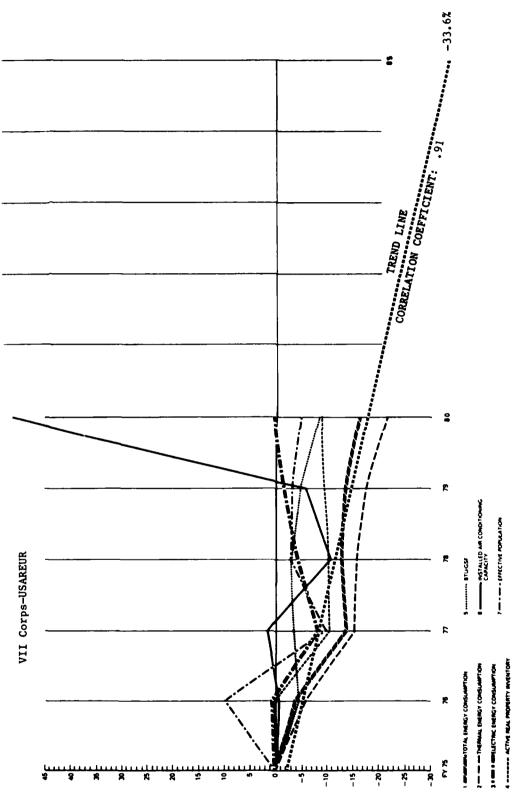


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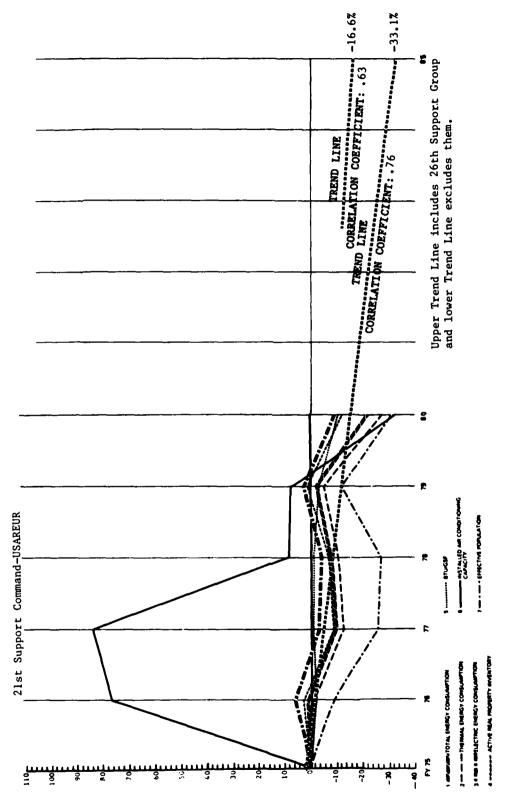
S Amy ANALYSIS OF ENERGY CONSUMPTION INSTALLATION FORPY

	UNITSEY	£	£	:	*	£	8
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Electrical En Corre to PO		3,399,647	3,306,944	4,045,419	4,235,067 24,6	4.324.515 27.2	4,338,887 1 27.
	ROPE	109.217		125,488	- '		131,728 1 20.
PE CONTRACTOR PROPERTY OF PU	346	34.899	2.7 . 986.71				38.656 4 10.8
Ou g pavay, campando,	ROPLE	144,116	146.739 1.6		-	_	170,384 1 18.
Fileshor Population 11 to PO	SOPLE	120,850	121,734 ' 0.7	_	139,324 15,3	-	144,613 + 19.
٤	Brucae	87.0	82.7: -4.9	4.78	~		80.2 1 -7.
En Communication Play to PO	eruca.	103.7		163.1	103.6 0.1	101.8	94.5 1 -8.
Electric En Consumption/Resident Population M	BTUCAP	31.1	30.3' -2.6	32.2	33.4 7.4		32.9 1 5.1
244	Sec	4,335		3,064 -29,3	3,087 1-28,8	3.105 '-28.4'	3.694 1-14.8
Blac EvergerTon of As Cond to PO	40TOTB	784.2	1,400,4 78,6	1.329.3	1,371,9, 74,9	1.392.8 . 27.6	1,174.6 4 49.8
_	7	56,495		78,080	78, 592 ' 18, 2		80,766 4 21.
PRENames Populations	SCAP	\$5.	2	.12.	1.56 1.8	10 85.	.564 1.
200	#TUGS!	188,474	182,073 -3,4		-	185,132 -1.81	169,115 1-10.
and in ConsensationGSF is PD	TUGS.	137,348	132 468 -3.6	-	130,189 ' -5.2	-	115,393 (-16.
Because for Consumption/GSF to Pto	-	1	43, 605 3.0.	-	53,887 544_1	1.8 2 3 821 42	53,722 1 5.
<u> </u>		***	192	256	271	300	314
menence & Production	25	5.628	5,643	990.9	6.304	6.288	6,207
search. Development & Toping	,	74	74	7.4	74	13	7.4
	3	7.021	5.897	878	864	867	856
3.		Not Available Separately Included Above	348	_	6.958	6.888	7,009
¥	25	1.569	1,508	1.965	7117	2.0/3	2,085
포	*5	2.741	2.961	3,796	3,752	3.967	4,025
발	2	15.267_	15.005	16,137	15,930	15,852	15,758
¥	252	6.963	7,113	8.717	8,995	9 569	9,561
¥	#Sr	24.788	24.937	30,619	30.471	11.52	31,991
¥	25	1.340	1.316	1.666		1.695	1,694
			נופ	1.066	860.1	1 103	1,118
2	2	New Australia					



VII Corps
INSTALLATION
ANALYSIS OF ENERGY CONSUMPTION
US Army

5	£	Æ.				æ		€	8
DI GAM	L.	18,935,256	-4.0	17.087.232	-13.4	-	-12.9'	-	-13.7! 16,311,539
201 0		14,011,450	•	12, 594, 250	-15.1	12,498,350	-15.7	12, 195, 825 '-1.	11.609
2	4,893,843	4,923,806		7 95 385	-8.2	-	-4.1	-	,
ROPLE		159.504	8.8	127,088	-13.31	143.254	-2.31	-	5, 1, 135, 310
PEOPLE	39,549	47,880	"	50.832	28.5	15.697		-	18 8 8
MONTE		207, 384	11.4			178.951	-3.9		
FOF.		175.64	5			155.153			-3 11 151,956
MOTUCAP		91.3	13.8		-6.3	96.1		79.16	-13.7' 89.1
MBTUCAP	L .	107.9	-12.61			110.8	. "		10.94 108.74-11.
METUCA		30.9	-7.5	35.4		32.8	-1.B.	1	
1045		3.148		3,188	3.1		- 1	١,	7
METUTON		1.579.2		1,409.3	19-6-			١,	
ž.		1.09,663		98,034	-10.4	98.217	-7	-	99,737
KSFCAP	89.	.62	•		ò	.63		,	19.
BTUNGSF	180,215	172,668		174.299	-3.3	175.038	-2.9	171.836	165,551
81UGSF	135,511	12; 768	-5.7.	128,468	-5.2	127.252	-6.1	123,128 ' -	116,404 (-14
BTUGSF	44, 704	506-54	0.4	45.831	2.5	47 786	6.9	48 708	1 0.1 49,147
rS.									
#St	582	624	<u>-</u>	353		399	-	369	433
152	9.175	9.874	_	8.715		8.563		8,475	8,660
¥S¥	•	•	-						
S	7,628	7,612		1,506		1,478		1,505	1,349
KSF	ł	included Above	BASE	5,117		5,129		5,222	5.168
RS#	1,960	1,757		1.678		1,703		1,692	1.617
SS.	079.7	4,878		4,544		709.7		4,717	4.854
KS.	31.064	30,743	_	25,306		25.027	-	24.886	24.666
KS.	14,888	14,631		13,486		13,591		13,754	13,853
KSE	35,574	35,522		33.834		34,214		34.914	35.460
KS	2,290	2,317	П	1,982	_	1.927	1	1,784	2.038
KS¢	1,652	1.473		1.343	-	1,381		1,457	1,305
3	New Available	TASE 122	_	000		100		376	37.6



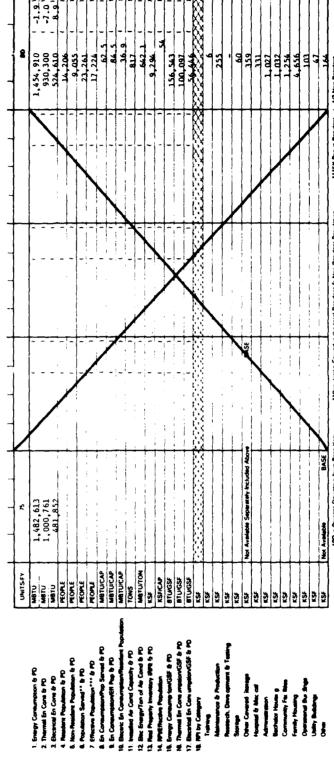
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MACOM PSARETR

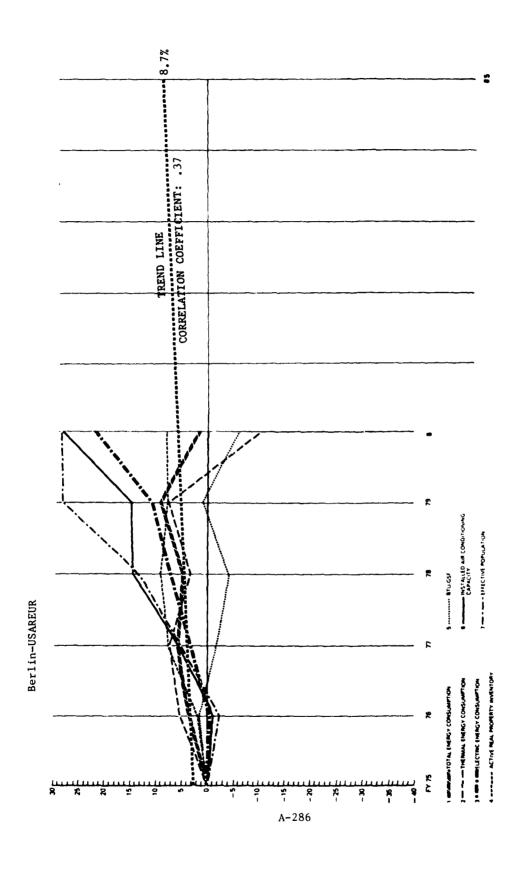
Well 10, 919, 788 Well Well 10, 919, 788 Well 10, 456, 1,18 Well 10, 456, 1,18 Well 10, 100, 100, 100, 100, 100, 100, 100		CHRISTY	£	36	1.		3 8	6		8
1,435,650	theres Comumption 6 PD	MBTU.	10,919,788	11,037,575 , 1.1	-	_	-	10,572,327	-3.21	8,513,886 1-22.
New York 1,45,118 1,685,100 6.5 1,513,421 -27,0 1,500,684 1,50		2	7,458,650	-	_		-	7,02,,750	-8.8-	-
FIGURE 99,646 39,135 -4,3 34,122 -27,2 70,068 -29,24 72,011 -27,2 70,068 -29,24 72,011 105,802 -22,21 105,802 -2	•	Meto	3,461,138	-	-	_	-	3 544 577	- 1	286
Figure 16, 10 de 12, 11 12, 14 14, 13 14, 12 12, 12, 12 13, 12, 12, 13, 14, 17, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18	_	FORE	949.66	-	72.011	1	j	83 058	19 914	63,386 1-36.4
Figure 116,350 125,454 7.9 106,138 222,17 105,820 -222,17 105,820 -222,10 111,881 100,011 88.8 89,381 125,555 81,985 -256,550 125,550 126,650 126,550 126,650 126,550 126,650 126,550 126,650 126,550 126,550 126,650 126,550 126,550 126,550 126,550 126,550 126,550 126,550 126,550 126,550 126,550 126,550 126,550 126,550 126,550 126,550 126,550 126,550 126,500 126,	8	PEOPLE	36,704	-	34,127		-	44,767	1 22.01	36,752 1 0.
Mathematical Color Mathema		PEOPLE	136,350	-	106,138		-'	127.825	1-6-1	100,138 1 -26.
Mail Color 10 10 10 10 10 10 10 1		PEOPLE	111,881	-	83,387	_		086 76	1-12.41	75,637 (-32.4
100.2 10.9 118.6 21.5 122.0		MBTUCAP	80.1	; - 0	93.1	·	٠	82.7	1 3 21	85.01
10065 134 17 14 14 15 15 15 15 15 15	2	MBTUCAP	97.6	-	118.6			107.9	-	112.61 15.4
10065 2,338 4,146 77,7 1,189 4,305 84,11 2,552 1,125	•	MBTUCAP	34.7	-	, 9.9,		-		-	49.4 1 42.4
1,480.4 1,480.4 1,480.4 1,480.4 1,480.4 1,480.4 1,480.4 1,480.4 1,480.4 1,480.4 1,400.1 1,40	_	10MS	2,338	: -	4,305	2	,	2.515	1 7.61	1,566 (-33.
155, 171 172, 448		METUTON	1,480.4	- 60	778.9	L	-	1,609.4	18.4-	1,998.3 (35.
Street		Z.	70,124	_	63.621	_	-	70.663	10.51	61,420 1-12.4
## 155,721 152,448 -2.1 155,183 -0.2 153,664 -1.3 ## 100.550 -2.2 102,650 -2.3 102,664 -1.3 ## 100.550 -2.2 102,650 -2.3 102,664 -2.3 ## 100.550 -2.2 102,650 -2.2 ## 11		KSFICAP		.71	.76		=		16.31	.81, 28.6
STATE 106, 154 101, 150 14, 51 102, 614 13, 51 100, 888 13, 31 13, 51 13, 51 14, 51 15,		BTUGSF	155,721	-	_		-	150.083	1 -3.61	138,617 1-11.
10 10 10 10 10 10 10 10	•	BTUKGSF	106,364	-	!-		. -	99 765	1-6.21	87,668 1-17.6
12 12 13 14 15 15 15 15 15 15 15		87 UKSF	49, 357	-	-		_	811 05	-	20,949
10 10 10 10 10 10 10 10		KSF								
15 15 15 15 15 15 15 15	•	KSF	111	**	102	7	10	126		7/
15 15 15 15 15 15 15 15		KSF	4,611	4,588	4,415	4.5	26	4.562		4,285
Kight Market 17,999 19,199 19,174 5,198 12,186 12,		KSF	15	15	15		15	21		12
1.55		35	17,999	19, 399	5,774	5.9	58	5.886		5,941
1,496 1,497 1,410 1,511 1,511 1,511 1,511 1,512 1,512 1,512 1,513 1,513 1,514 1,51		KSt	5			12.3	09	12.674		12,551
1.50 1.50		25	1,496	1.497	1,470		31	1.516		1,171
11, 17 1, 1,	•	KSF	3,976	4,349	4,656		36	5,006		7,011
Kist 17 12 12 12 12 13 14 14 15 15 15 15 15 15		KSF	11,529	11,117	9,964	3.5	92	10.966		696'6
KSF 20,954 21,229 16,145 16,844 1,895 15,844 1,895 15,844 1,895 15,844 1,895 15,844 1,895		KSF	6,175	6.402	5,641	8,8	70	6.297		4.916
1.943 1.94		KSF	20,954	21,229	16.145	16.8	77	19, 995		15,357
KSF Inch Available 1,040 1867 1952 1957		RSF	2,218	2,063	1,983	8-1	87.	2.202		2,130
KSF New Anadasies Back 782 146 241 241 241 241 242 242 243	_	ξζ.			952	-	57	1 00		456
ren Dewaron from Base Yes ''Rousing Served a fine total Readers to Non Resident Population (4) FY 76 Includes: (5) FY 77 Includes: (4) FY 78 Includes: USAE Material USAEMPAE Pipeline System	_	KS	i		146	7	41	181		37
(2) FY 76 Includes: (3) FY 77 Includes: (4) FY 78 Includes: rmany; USAE Material USAEMONE Pipeline System	ı		*PD is Percent Devusion from Bas		*		*Eft Pop is Resident	1 1/3 Non Readon		
: USAE Material USAEMMAE Pipeline System Separately in FY		27 PT (1)	Includes:		(3) FY 77 Includes:		ncludes:	(5) 26th Spt Gp	Reported	
		NATO C	BUE - Germany; uabr car Ca.	USAE Material	USAEMMAE	Pipelin	e System	Separately	1n F7 80	
Getner Arm Denot: 6 NATO - SHAPE Sort Co.		Cermen	sheim Army Depot:	A NATO - SHAPE Sot.	ě					
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U.S. Army - ANALYSIS OF ENERGY CONSUMPTION INSTALLATION 26th Spt Gp (Hetdelbeer) MACOM USAREUR

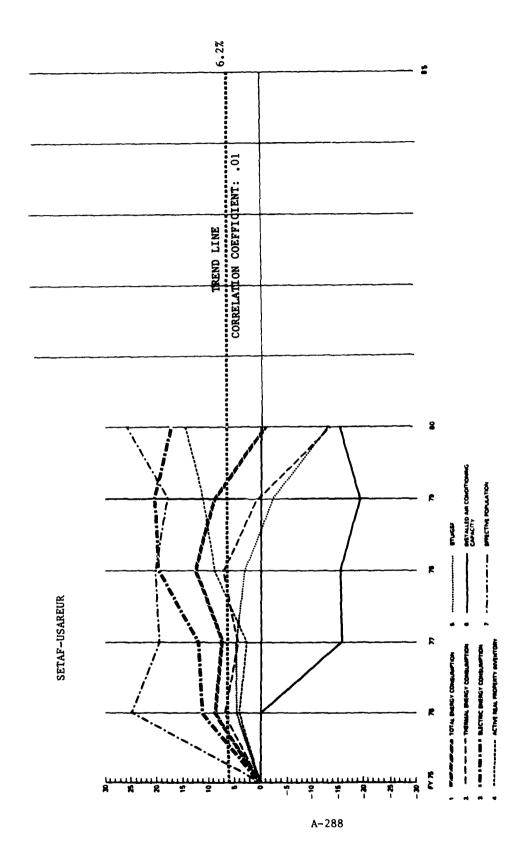


Separated from 21st Spt CMD as of FY 1980. Energy Consumption for Heidelberg Military Community for FY 1975 is used as a Base for Comparison Purposes.



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INSTALLATION
U.S. Army ANALYSIS OF ENERGY CONSUMPTION INST
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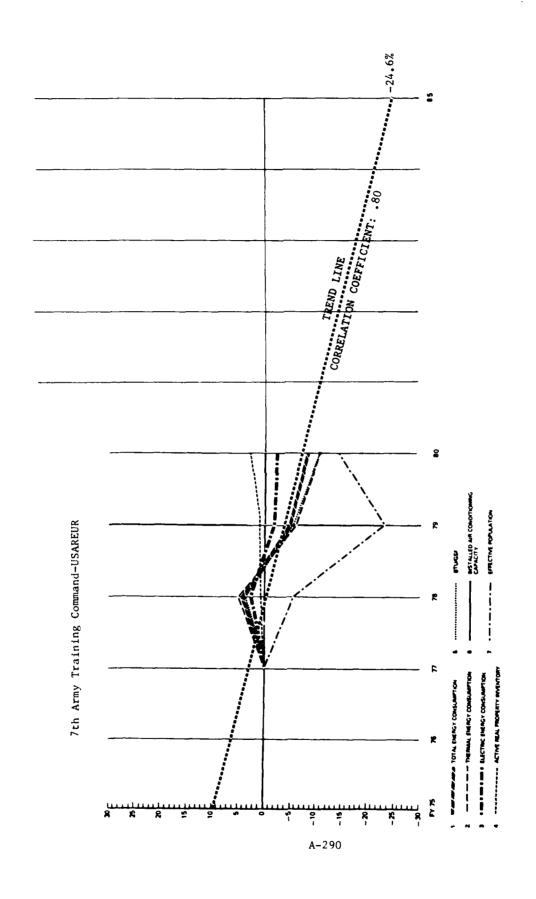
	_	4 4 1					
	UNUTSEV	£	£	"	£	£	90
			-	2 013 093	1 991 275	2 070 806 1 8.81	1,928,025 (1.3)
1 Engigy Consumption to PD	2	- 547. CA.					15.01-1 567 560 1
2 Thermal En Cons to PD	M870	1,202,125		1,288,000	1,240,9/2		ľ
1 Section for Come to DD	DISM	701 344			750,300		852, 500 21.8
	3608	1 075		12 635	13.495	15.264 28.51	15,264 1 28.51
A Manager Population of The	1	10.11			1 395	_	1,772 (15.4)
5 Non Resident Population & PO	<u>.</u>		ļ		300 31	10 11	17,036 1 27,01
6 Population Served** to PO	3.0g	13,410		13,745	-	١.	10 86 . 350 31
7 Effective Postdonom fo PD	PEOPLE	1. 378	12,119 ' -2.2'	13,005 5.01	14,015 13.11	15,855 28.01	10.07
S. Comment of the Count to 90	MOTULAR	6 171		146.5	-	- i	113.2 (-20.2)
	100			8 75.1	-	130.6 '-15.0'	121.64 - 20.91
9 En Consumpropriett Pop 8 PD		133.7		0:10	-	-	17.5- 16.55
10 Electric En Conjumption/Retadent Population	METUCAP	59,1		3.76		١.	927 1 28.01
1) Investigat An Cond Capacary & PO	TONS	724		143		١,	010 7 - 5 11
12 Elec Endign/Ton of As Cond to PO	MBTUTON	7 878		9.7.9	7.79-, 5.808	4.6.0	9 4 4 9 4 9
Control of the Party of the Par	200	1, 202		12,115	-	12,175, 1, 2,91	12,163 (7.1
C. C. C. C. C. C. C. C. C. C. C. C. C. C		T-707			ā	_	14 -13.41
14 MPSEMECHNE Population	3				} ~	-	158,255 1 -6.21
15 Energy Consumption/GSF fr PD	91005	168,643	-	166,165	O'T STEEL		11 71-1 766 88
16 Thermet En Consumpson/GSF & PU	BTCACSF	106.505	_ /	_	•	-	19 61 600 07
17 Bucrocal En Commungator/GSF fo PD	BTUGSF	42 138.	P. L 60,912			PARTS	
18 PC by Campay	151				CALL CALL CALLED	Lander Market	
Transact	NS.	95	5.6	132	951	617	140
Mandatabase to Production	15.	365	366	366	366	366	365
Bearing Constructor in Testing	25.2			•			•
	20	900	821	5	3.5	3.5	\$5
	2	No. Avestable Consumer Inchested About	SAS.	ļ	765	766	766
The County of th			55	299	453	154	453
	3	acr	700 .	700	1 082	1 00 1	1.072
Administration	2		F.0-1	000		100	2 633
Bechelor Housing	ž.	2,480	2,480		7907	0767	100
Conventurity Facilities	KSF	1.414	1,420	1,603	500-7	77	-
Same Nomes	*8	787. 4	4.569	4.656	4,862	9.868	2007
Operational But threat	25	71.6	234	234	230	230	230
	KSX	966	195	186	185	184	183
	, Lec	No. Academic		00	S	OS	90
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U.S. AMMY ANALYSIS OF ENERGY CONSUMPTION INSTALLATION SETAF

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			1 1	-	1			-	-		1	1
	UNWISH	×	*		11		₹		₹	1	8	
1 Engigy Contampton to PO	MERT	586. 883	618 127	2 6	610, 909	15.7	659.805	-	418 744	8	581.360	16.0-
2 Themse En Core & PD	3.EET.C	342.875	366, 525	6	357,625	6.3	367,125	-	344,800		295, 675	11.8
3 Electrical En Con. In PO	J. 1987	244, 006	271,602	11.3	273,284	12.0	292,680	_	293_966	1 20.5	285 685	12.1
4 Numbers Popular on fr PD	FORE	1 800	785	47.2	4.748	24.9	5.34.2	-	016 4	1 29 7	2 307	19.71
5 Non-Numbers Poy-utenon is PO	HOLE	661 7	77.79	10.6	7.992	, 0 11	9 366	-	7.150	9	4	1 4.41
6 Population Serves" - 6 PO	PEOPLE	666 01	12,031	7.6	12.740	15.8	11,708	- :	12.080	9	12,824	1 16.71
7 Effective Population*** & FD	TOP .	561 9	7.740	24.91	7.412	19.6	7.464	-	7,313	18.0	7,813	1 26.01
B for Consumptions to Served for PO	MBTUCAP	23.6	23.0	1 2 0 -	5.64	1-7.3	56.4	-	52.9	P 0-	45.3	1-15.21
9. En Consumption (If Pop to PO	METUCAP	7	7 7 8	-13.0'	85.1	-10.1	7.88	-	87.3	1 8,1		1-21.41
10 Electric En Corne, spenowflesiellen Populenon	METUCA	7	9.84	26.31	57.6	-10.3	54.8	19.41-	59.6	1 2 2		1-16.21
11 bressfied As Core Capacory is PD	T0MS		, 156 1	-	850	19 61	1.058	_	1 613	10 2	1,058	1-15.61
12 Elec Engage/Top 4 Ap Const & PD	METUTON	7 767	2 41.6	7 11	2.83.4	12 25	226.6	~	240 2	0 07	270.0	1 38.73
	¥St	1 025	858	7	3.805	2.7	040	-	4 118	1 11 1	6,243	14.51
14. MPVENEZANO Pap destan	KSFCAP		- 05	-16.7	5	10.51.		_	3	1,40	.54	1-10.01
-	BTUGSF	25 400	707 591	7	165.810	1,7 4	163.318	3.11	155, 110	1 5 1	137.016	1-13.51
O 18 Thermal for Core ampleon/GSF to PD	BTUKSS	775 66	900 56	, ,	93.988	1.7	90.872	18	83 230	رہ ہے ،	69,683	1-24.71
17 Electrical for Con unphonotical for PD	BTUGSF	858 57	70 400	, 0	71.822	- 0	72.446	1001	22 380	178	161,73	1 2.2 1
18 MP by Campon	KS											***
Transaction	ES.	2	36		ď		0		ď		6	
Managements & Production	KSF	394	296		101		301		256		546	
Nementals, Dave spenges & Testing	KSF				· ·				1			
Strange	KS7	460	200	:	111		117		531		757	
Other Covered Apriles	KSF	Not Available Separately Included Ab	8	BASE	124		712		168		69/	
Houghted & Max cell	KSF	901	100		26		47		6		76	
Adherentetellun	KS	318	318		310		330		131		797	
Bechelor House g	¥S¢	159	797	 	3		105		465		470	
Community for door	KSF KSF	603	169		685		708		989		861	
Fortify Housing	KSF	857	181		8 03		797		ROF		205	
Operational Bas dings	KSt	707	8		att	_	911		5		119	
Unity Buddings	KSF	01			3		3		8		23	
-	KSF	Not Avedebie BASE			11		11		7		13	
		*PD is Percent Dev Aton from Base Year		on Served is 8	*Population Served is the total Resident is Non Resident Population	Insudern Popule		*** Fiff Pop is Resident	4 1/3 Non Readent	ı		
MEHODICS	PY 1975 Includes	ncludes	FY 1976 Includes		FY 1977 Includes	es						
	8th log Ond-Italy	ad-Italy	Support CpSETAF	۵.	8th SPTGP (SETAF)	AF)						
	a support	e Support Group-Italy	a stn Support cp.	÷	e orn spc. cp. v-v-ni	16-7-7						



US Army ANALYSIS OF ENERGY CONSUMPTION INSTALLATION 7th Army Toy (md

MACOM PSARETR

UNITSFY	£	¥	"	₽.	£	
_		-	2,264,918	2, 362, 344 4.3	2,153,032 (-4,9)	8- 167.570.2
•	-	-	1,615,550	-	1,516,575	1.441.400
		-	649, 368	-		634,091
		-	31,237	29.125 1-6.8	23, 390	1-1. 75, 45
_		-	6.870	7.678 11.0		6.776
		-	38.107	-	30.229	33,233 -1-12.8
4.00	•	-	33,527	31,668 (-5,5)		28,716 1-14
		-	59.4		71.2	62.5
		-	67.6		83.9 124.1	72.3 (
		-	20.8			24.0 1
- <u>-</u> -					191	7 91
		-	- VN			, VN
		-	12 413	15.494	12	112,777
_		-	37 1		<u>.</u>	6 81 18 6
#1wGSf	i 1	: -	182.170	-	171.679 1-5.8	162,440 1-10.8
		-	129,940	135.815 4.5	-	112,812 1-13
		T	52.230	-	50.750 1.28	49,628
Manufactures & PU						
			316	123	336	354
25			606	903	913	920
3				11		
252			65	106	134	133
Ī	Not Available Separately Included Above	35¥8	956	978	97.5	1,042
			102	102	102	102
25.2			379	390	399	675
2			5,303	5,274	5,134	4,959
KSF.			1,509	1,509	1,532	1,626
25			2,489	2,518	2,518	2,651
ž			257	234	342	382
35.2			113	116	117	119

*PD as Parcent Develoon hom Beas Year "*Population Served a the total Readom topulation Was part of VII Corps & Other Activities
Prior to FY 1977. FY 1977 Data Used as Base for Percent Deviations

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